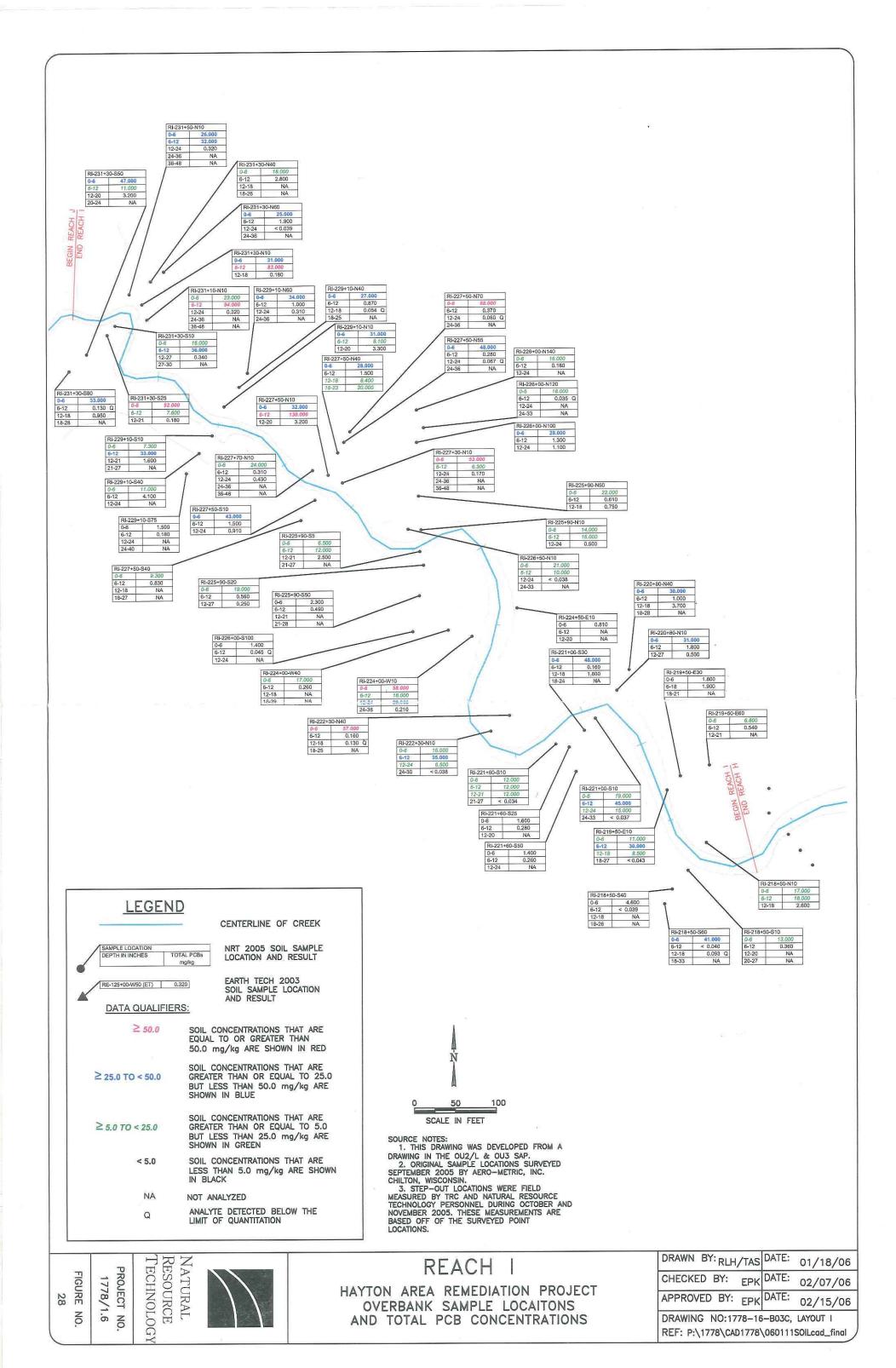


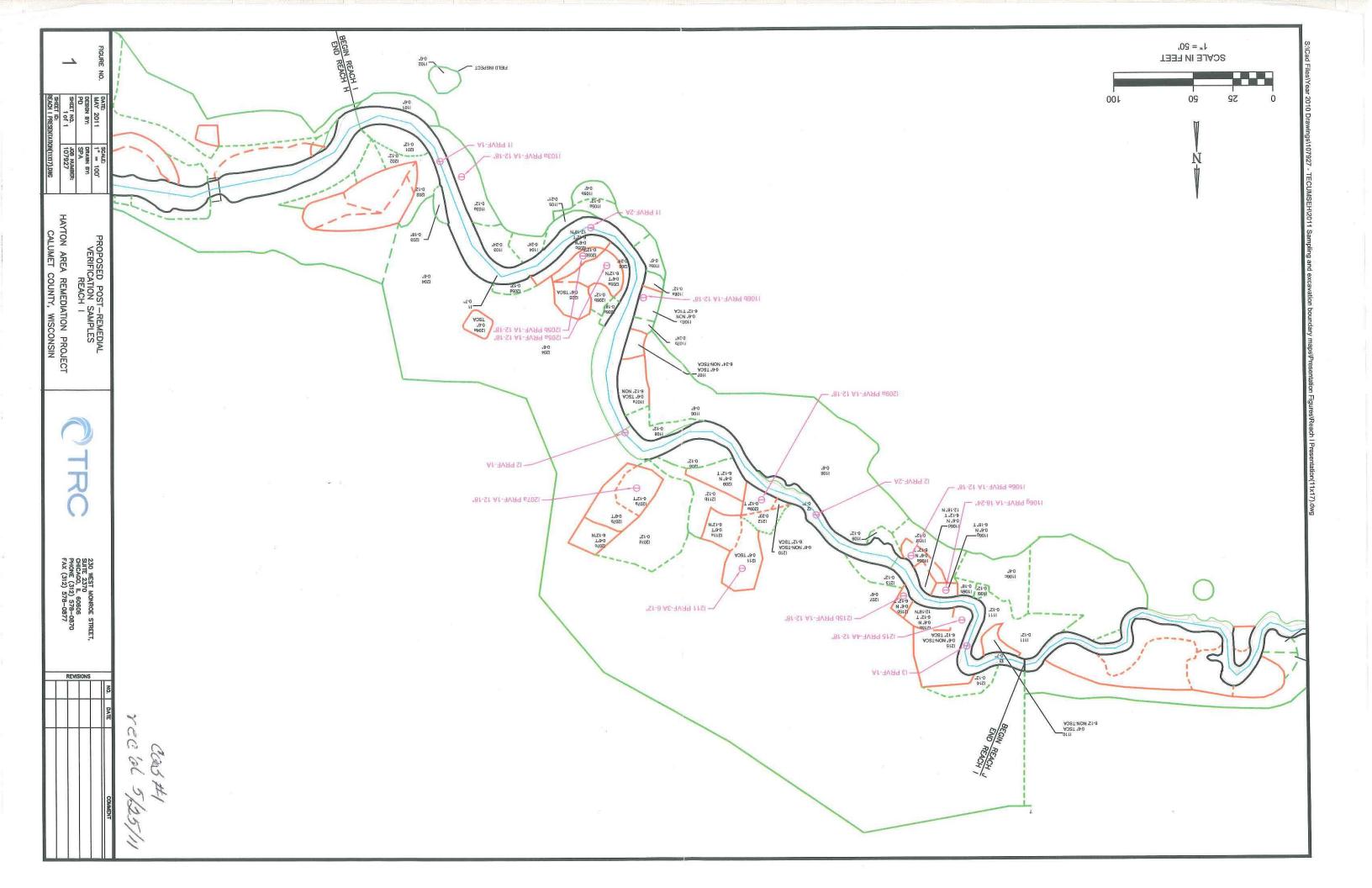
TRC
230 West Monroe Street
Suite 2370
Chicago, IL 60606
Main 312.578.0870
Fax 312.578.0877

-rec'd 5/11

### **Transmittal**

To:	Jim Bauman		VR EPA Region V		Date	<b>:</b> :	May 2	3, 2011
	Jean Greensi	.ey / US1	EFA Kegion v		Project No.:		10792	7
					Proj	ect:	HARP	OU2L & OU3
We ha	ave enclosed (1)	copy of:						
X	Prints		Reproducible	)		Reports		Letter
	Specifications		Memorandur	m		[Other]		
Descr	iption						Rev. #	Date
Reacl	ı I (West Bank) S	Sample R	tesults and Exc	avatio	n Bou	ındaries (24	4"x36")	05/23/2011
Reach	n I (East Bank) S	ample R	esults and Exca	ıvatioı	n Bou	ndaries (24	"x36")	05/23/2011
Figur	e 1 – Proposed P	ost-Rem	edial Verificati	on Sai	mples	– Reach I (	11"x17")	05/23/2011
Figur	e - Lower OU2 &	OU3 Te	ch Memo - Rea	ch I (	11"x17	")		02/15/2006
Sent \	Via:			~				
	Messenger	□ 1st	Class Mail	X	Fed	Ex		[Other]
						TRC		
						Paymon Da	inesh	







# Proposed Overbank Removal Boundaries and Sample Results Operable Unit 3, Reach M

### Hayton Area Remediation Project Calumet County, Wisconsin

October 2011

Prepared by:





230 West Monroe Street Suite 2370 Chicago, IL 60606

312.578.0870 PHONE 312.578.0877 FAX

www.TRCsolutions.com

rec'd #1
cos #3/11

October 12, 2011

Mr. Jim Baumann Special Assistant to Bureau Director Bureau of Watershed Management Wisconsin Department of Natural Resources 101 S. Webster Street, Box 7921 Madison, WI 53707-7921 Ms. Jean Greensley
U.S. Environmental Protection Agency
Remediation and Reuse Branch
Land and Chemicals Division
77 W. Jackson Boulevard
Chicago, IL 60604-3511

Re: Proposed Overbank Removal Boundaries and Sample Results Operable Unit 3, Reach M Hayton Area Remediation Project

Dear Mr. Baumann and Ms. Greensley:

On August 12, 2011, WDNR submitted its review of the proposed removal boundaries in Reaches K, L and M, and identified locations where additional sampling is needed to adequately define removal boundaries. On September 14, 2011, WDNR submitted draft Conditions of Approval for Reaches K, L and M, which specified additional locations for characterization and post-remedial verification (PRV) sampling. To address each of the locations identified by WDNR, TRC has collected additional characterization samples in Reaches K, L and M, and has modified removal boundaries, as appropriate.

Enclosed for your approval are a figure and tables showing modified overbank removal boundaries in Reach M of the Hayton Area Remediation Project, Operable Unit 3 (OU3). Electronic copies of this submittal are also being provided via email to <u>James.Baumann@Wisconsin.gov</u> and <u>Greensley.Jean@epamail.epa.gov</u>.

Table 1 lists the additional characterization samples were collected and analyzed in Reach M to address each of the locations identified by WDNR. Figure 1 shows the sample results and modified removal boundaries. The additional characterization samples and modified removal boundaries are shown in magenta.

Figure 1 also shows the locations of proposed post-remedial verification (PRV) samples in Reach M. TRC has added PRV sample locations based on those requested in the September 14, 2011 draft Conditions of Approval. Several PRV sample locations were added based the modified removal boundaries. Table 2 is an updated list of PRV sample locations in Reach M. Table 3 provides the rationale for each of the modified removal boundaries. Table 4 is an updated list of stream bank PRV samples. Table 4 also indicates the segment of stream bank (by Station ID) that is represented by each stream bank PRV sample.

TRC is still in the process of characterizing several removal zones in Reach M. TRC has collected characterization samples for these areas and we are awaiting the results. The removal zones that require further characterization are indicated on Figure 1 and on Table 3. TRC will provide the sample results within 48 hours of receipt from the laboratory.

As requested, TRC has also enclosed copies of the following reference documents to help streamline the review and approval process:

- Reach M sample elevation information from the *HARP OU2/L & OU3 In-Channel and Overbank Sampling Technical Memorandum* (February 2006);
- Reach M soil boring log information from the *HARP OU2/L & OU3 In-Channel and Overbank Sampling Technical Memorandum* (February 2006);
- Figures of the stream channel location in Reach M, from the Earth Tech document *HARP OU3 Overbank Sampling and Analysis Plan* (December 2003)
- Reach M soil boring logs from the Earth Tech document *HARP OU3 Overbank Sampling and Analysis Plan* (December 2003)

We would appreciate your comments and approval for Reach M by October 21, 2011.

Please contact me at (312) 578-0870, extension 8486, with any questions.

Sincerely,

**CTRC** 

Christopher D. Harvey, PE

Program Manager

Enclosures: Figure 1 - Sample Results, Excavation Boundaries and Proposed PRV Samples, Reach M

Table 1- Additional Characterization Sampling Results 2011, Reach M

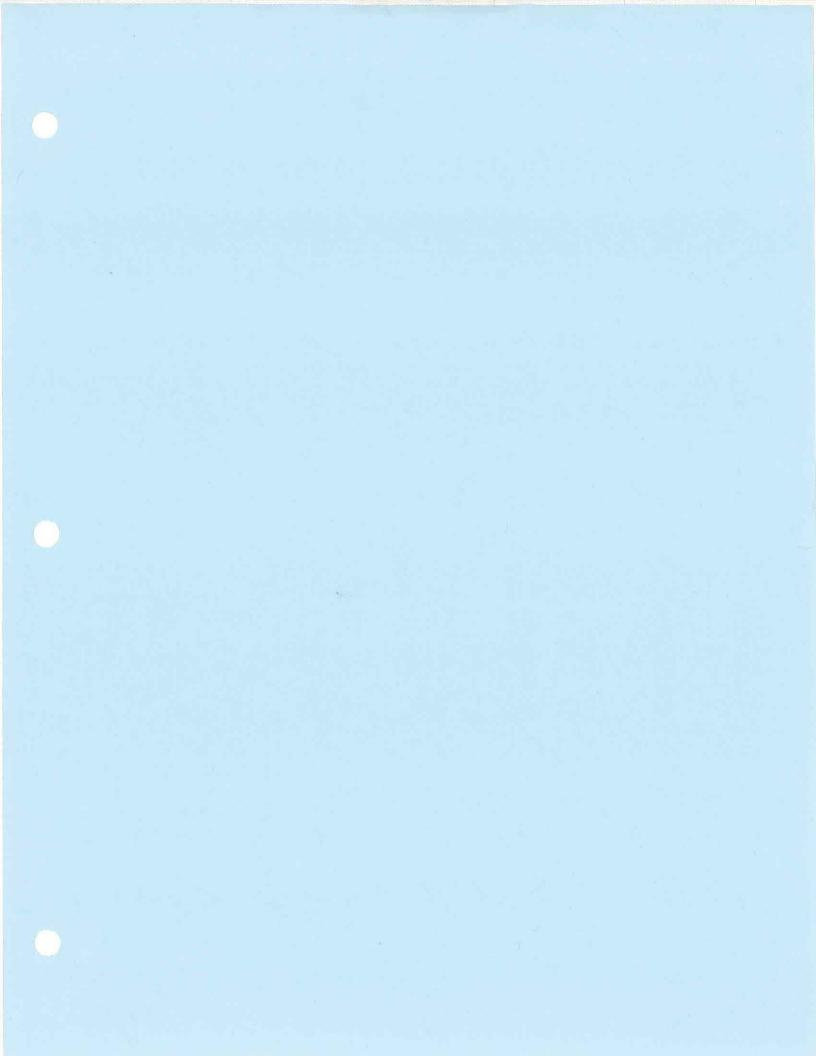
Table 2- Rationale for Modified Removal Boundaries, Reach M

 $Table \ 3-Proposed \ Post-Removal \ Verification \ Samples, \ Reach \ M$ 

Table 4 - Proposed Stream Bank PRV Samples, Reach M

Reach M Reference Documents





## Table 1. Additional Characterization Sampling Results 2011 Reach M Hayton Area Remediation Project

	Total PCBs		
Sample Name	(mg/kg)	Location	Comments
RM 008L 12-18	4.27	M110	
DUP 123	6.69	M110	
RM 020L 0-6	0.696	14LL	
RM 020L 6-12	0.176(J)	14LL	
RM 021L 0-6	2.85	12ML	
RM 021L 6-12	4.2	12ML	
DUP 114	5.32	12ML	
RM 021L 12-18	6.35	12ML	
RM 021L 18-24	5.24	M110	
RM 021L 24-30	0.0616 (Л)	M110	
RM 022L 0-6	4.54	12ML	
RM 022L 6-12	0.326	12ML	
DUP 119	0.563	12ML	
RM 023L 0-6	6.02	12ML	Located at the top of the bank
RM 023L 6-12	10.7	12ML	Located at the top of the bank
RM 023L 12-18	0.428	M110	Located at the top of the bank
RM 024L 0-6	2.26	M110	Located at the top of the bank
RM 024L 6-12	1.36	M110	Located at the top of the bank
RM 024L 12-18	< 0.0386	M110	Located at the top of the bank
RM 025L 12-18	13.6	M105	
RM 025L 18-24	4.85	M105	
RM 026L 0-6	5.86	7ML	
RM 026L 6-12	0.264	7ML	
RM 026L 12-18	0.0432 (J)	7ML	The second secon
RM 027L 0-6	3.08	7ML	
RM 027L 6-12	0.489	7ML	
RM 027L 12-18	< 0.0373	7ML	
RM 028L 0-6	8.21	13ML	
RM 028L 6-12	7.62	13ML	
RM 028L 12-18	8.7	13ML	
RM 029L 0-6	1.91	16ML	
RM 029L 6-12	6.96	16ML	
RM 029L 12-18	1.14	16ML	
RM 031L 0-6	4.59	M101	
RM 032L 0-6	7.99	M102	
RM 032L 6-12	10.4	M102	
RM 033L 0-6	4.93	7ML	
RM 034L 0-6	1.73	7ML	
RM 035L 0-6	6.95	7ML	
DUP 129	4.74	7ML	
RM 036L 12-18	0.222	M105	
RM 037L 0-6	2.95	16ML	
RM 037L 6-12	3.54	16ML	
RM 038L 0-6	4.87	16ML	
RM 038L 6-12	3.47	16ML	

## Table 1. Additional Characterization Sampling Results 2011 Reach M Hayton Area Remediation Project

	Total PCBs		
Sample Name	(mg/kg)	Location	Comments
RM 039L 0-6	6.19	16ML	
RM 039L 6-12	4.5	16ML	
RM 040L 0-6	3.72	7ML	
RM 041L 18-24	1.88	13ML	
RM 042L 0-6	1.72	13ML	
RM 042L 6-12	4.15	13ML	
RM 042L 12-18	6.2	13ML	
RM 043L 0-6	6.65	13ML	
RM 043L 6-12	12.8	13ML	
RM 043L 12-18	2.63	13ML	The state of the s
RM 044L 0-6	20.4	15ML	
RM 044L 6-12	0.99	15ML	
RM 044L 12-18	0.169 (J)	15ML	
DUP 131	< 0.0519	15ML	
RM 515R 0-6	2.22	3MR	
RM 515R 6-12	4.62	3MR	
RM 516R 0-6	3.96	19MR	
RM 516R 6-12	0.457	19MR	
RM 517R 0-6	13.4	5MR	
DUP 128	13.5	5MR	
RM 517R 6-12	10.5	5MR	,
RM 517R 12-18	1.72	5MR	
RM 518R 0-6	6.16	8MR	
RM 518R 6-12	1.23	8MR	
RM 518R 12-18	< 0.0343	8MR	
RM 519R 0-6	4.4	M202	
RM 520R 0-6	1.52	5MR	
RM 520R 6-12	0.0498 (J)	5MR	
RM 521R 0-6	4.34	4MR	Located at the top of the bank
RM 521R 6-12	0.289	4MR	Located at the top of the bank
RM 521R 12-18	0.056 (J)	4MR	Located at the top of the bank
RM 522R 0-6	10.3	4MR	Located at the top of the bank
RM 522R 6-12	2.47	4MR	Located at the top of the bank
RM 522R 12-18	0.31	4MR	Located at the top of the bank
RM 523R 0-6	3.77	8MR	
RM 524R 0-6	2.0	8MR	
RM 525R 0-6	2.72	8MR	

<sup>(</sup>J) = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

### Table 2. Rationale for Modified Removal Boundaries Reach M

#### **Hayton Area Remediation Project**

Removal	10/12/2011
Zone ID	Rationale
M102	<ul> <li>Upstream boundary is established by sample RM 003L 6-12" = 0.454 mg/kg.</li> <li>Upland boundary is established by samples RM 002L 0-6' = 2.75 mg/kg;</li> <li>RM 002L 6-12" = 0.123 mg/kg; and RM-289+00-W40 0-6" = 1.8 mg/kg.</li> <li>Downstream boundary is established by samples RM 004L 0-6" = 2.72 mg/kg; and RM 004L 6-12" = 0.758 mg/kg.</li> <li>Floor is established by sample RM-289+00-W10 12-24" = 0.71 mg/kg.</li> </ul>
M104	<ul> <li>Upstream boundary is established by sample RM 005L 0-6" = 1.42 mg/kg.</li> <li>Upland boundary is established by samples RM-292+30-S80 0-6" = 4.4 mg/kg; and RM 006L 0-6" = 3.77 mg/kg.</li> <li>Downstream boundary is established by sample RM-293+30-S10 0-6" = 3 mg/kg.</li> <li>Boundary with M103 established by the polygon line between 9ML and 8ML, with reference to sample RM-292+30-S40 6-12" = 0.16 mg/kg.</li> <li>Floor is established by samples RM-292+30-S40 6-12" = 0.16 mg/kg; and RM-293+30-S30 6-12" = 0.098 mg/kg.</li> </ul>
M105	<ul> <li>Upstream boundary is established by samples RM 007L 0-6" = 2.6 mg/kg; RM 007L 6-12" = 3.81 mg/kg; and RM 036L 12-18" = 0.222 mg/kg.</li> <li>Upland boundary is established by the polygon line between 11MLb and 6ML, with reference to sample RM-294+20-S30 0-6" = 1.1 mg/kg; and the polygon line between 12ML and 11MLb, with reference to samples RM 022L 0-6" = 4.54 mg/kg; and RM 022L 6-12" = 0.326 mg/kg.</li> <li>Downstream boundary is established by sample RM 023L 12-18" = 0.428 mg/kg.</li> <li>Floor is established by samples RM-294+20-S10 12-21" = 0.12 mg/kg; RM 025L 18-24" = 4.85 mg/kg; RM 008L 12-18" = 4.27 mg/kg; and RM 021L 24-30" = 0.0616 (J) mg/kg.</li> </ul>
M106	<ul> <li>Upstream boundary is established by sample RM 009L 0-6" = 3.82 mg/kg.</li> <li>Upland boundary is established by the polygon line between 13ML and 14ML, with reference to sample RM-296+50-W60 0-6" = 0.28 mg/kg.</li> <li>Floor is established by samples RM-296+50-W10 6-12" = 2.3 mg/kg; and RM-296+50-W40 6-12" = 0.28 mg/kg.</li> <li>TRC is collecting characterization samples at the downstream end of M106 to establish the boundary with M112. Results are pending.</li> </ul>
M109	<ul> <li>Upland and upstream boundaries are established by the polygon line between 19ML and 19ML, with reference to sample RM-302+20-S30 6-12" = 0.88 mg/kg.</li> <li>Floor is established by sample RM-302+20-S10 12-30" = 0.17 mg/kg.</li> <li>TRC is collecting characterization samples at the downstream end of M109 to establish the boundary with N108. Results are pending.</li> </ul>
M110	<ul> <li>Upstream boundary and floor established by sample RM 023L 12-18" = 0.428 mg/kg.</li> <li>Downstream boundary established by RM 024L 0-6" = 2.26 mg/kg; and RM 024L 6-12" = 1.36 mg/kg.</li> <li>Upland boundary will be confirmed by PRV samples RM PRVW 032L 0-6" and RM PRVW 033L 6-12".</li> </ul>
M111	<ul> <li>Upstream boundary established by sample RM 033L 0-6" = 4.93 mg/kg.</li> <li>Upland boundary established by the polygon line between 7ML and 6ML, with reference to sample RM 034L 0-6" = 1.73 mg/kg.</li> <li>Downstream boundary established by samples RM 040L 0-6" = 3.72 mg/kg; and RM-292+30-S80 0-6" = 4.4 mg/kg.</li> <li>Floor established by sample RM 026L 6-12" = 0.264 mg/kg.</li> </ul>

### Table 2. Rationale for Modified Removal Boundaries Reach M

#### Hayton Area Remediation Project

Removal	10/12/2011
Zone ID	Rationale
Zore ID	
	• TRC is collecting characterization samples at the upstream end of M112 to establish the
	boundary with M106. Results are pending.
	• Upland boundary established by samples RM 044L 6-12' = 0.99 mg/kg; and RM 044L 12-18" =
	0.169 (J) mg/kg.
M112	• TRC is collecting characterization samples at the north end of the upland extent of M112
	to establish the boundary. Results are pending.
	• Downstream boundary established by sample RM 038L 6-12" = 3.47 mg/kg.
	• TRC is collecting an additional characterization sample at RM 038L 12-18" to further
	establish the downstream boundary. Results are pending.
.,,	• Floor established by sample RM 041L 18-24" = 1.88 mg/kg.
	• Upstream boundary established by sample RM 038L 6-12" = 3.47 mg/kg.
	• TRC is collecting an additional characterization sample at RM 038L 12-18" to further
	establish the upstream boundary. Result is pending.
M113	• Upland boundary established by sample RM 039L 6-12" = 4.5 mg/kg.
	• Downstream boundary established by samples RM 037L 0-6" = 2.95 mg/kg; and
	RM 037L $6-12^{\circ} = 3.54 \text{ mg/kg}$ .
	• Floor established by sample RM 029L 12-18" = 1.14 mg/kg.
	• Upstream boundary established by sample RM 038L 6-12" = 3.47 mg/kg.
M114	• TRC is collecting an additional characterization sample at RM 038L 12-18" to further
	establish the upstream boundary. Result is pending.
	• Upland boundary established by sample RM-299+90-S50 0-6" = 2.3 mg/kg.
	• Downstream boundary established by sample RM 037L 0-6" = 2.95 mg/kg.
	• Floor and eastern boudnary established by sample RM 039L 6-12" = 4.5 mg/kg.
	VI
	• Upstream boundary is established by sample RM 522R 6-12" = 2.47 mg/kg.
	• Upland boundary is established by samples RM 514R 0-6" = 1.09 mg/kg; and
M201A	RM 502R 0-6" = 1.8 mg/kg.
	• TRC is collecting an additional characterization sample at the upstream end of the upland
	boundary of M201A to further establish the upland boundary. Result is pending.  • Downstream boundary is established by sample RM 504R 0-6" = 0.587 mg/kg.
	• Floor is established by sample 4MR-PRE-6-12" = <0.1 mg/kg.
	1 1001 is established by sample 41/10-112 - 0.1 mg/kg.
	Lingtroom boundary octablished by samples DM 521D 0.6!! — 4.24 moltros and
	• Upstream boundary established by samples RM 521R 0-6" = 4.34 mg/kg; and RM 521R 6-12" = 0.289 mg/kg.
	• Upland boundary established by samples RM 520R 0-6" = 1.52 mg/kg; and
M206	RM 520R 6-12" = 0.0498 (J) mg/kg.
171200	• TRC is collecting an additional characterization sample at the downstream end of the
	upland boundary of M206 to further establish the upland boundary. Result is pending.
	• Downstream boundary established by sample RM 522R 6-12" = 2.47 mg/kg.
	• Floor established by sample RM 517R 12-18" = 1.72 mg/kg.
	• Upstream boundary established by sample RM 525R 0-6" = 2.72 mg/kg.
	• Upland boundary established by the polygon line between 8MR and 12MR, with reference to
M207	sample RM 524R 0-6" = 2.0 mg/kg.
,	• Downstream boundary established by sample RM 523R 0-6" = 3.77 mg/kg.
	• Floor established by sample RM 518R 6-12" = 1.23 mg/kg.
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

<sup>(</sup>J) = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

## Table 3. Proposed Post-Removal Verification Samples Reach M Hayton Area Remediation Project

Sample	In-channel <sup>1</sup>			10/12/2011
Ю	or Overbank	Туре	Northing	Easting
RM IC PRVF 900C	In-channel	Floor	734761	2468782
RM IC PRVF 901C	In-channel	Floor	735055	2468763
RM IC PRVF 902C	In-channel	Floor	735308	2468758
RM IC PRVF 903C	In-channel	Floor	735411	2468629
RM IC PRVF 904C	In-channel	Floor	735493	2468397
RM IC PRVF 905C	In-channel	Floor	735708	2468323
RM IC PRVF 906C	In-channel	Floor	735654	2468082
RM BK PRVW 001L	Stream bank	Sidewall	734742	2468784
RM BK PRVW 002L	Stream bank	Sidewall	734906	2468768
RM BK PRVW 003L	Stream bank	Sidewall	735091	2468732
RM BK PRVW 004L	Stream bank	Sidewall	735226	2468680
RM BK PRVW 005L	Stream bank	Sidewall	735413	2468784
RM BK PRVW 006L	Stream bank	Sidewall	735416	2468695
RM BK PRVW 007L	Stream bank	Sidewall	735439	2468389
RM BK PRVW 008L	Stream bank	Sidewall	735610	2468397
RM BK PRVW 009L	Stream bank	Sidewall	735697	2468353
RM BK PRVW 010L	Stream bank	Sidewall	735651	2468237
RM BK PRVW 011L	Stream bank	Sidewall	735639	2468063
RM BK PRVW 012L	Stream bank	Sidewall	734696	2468864
RM BK PRVW 500R	Stream bank	Sidewall	734753	2468797
RM BK PRVW 501R	Stream bank	Sidewall	734905	2468790
RM BK PRVW 502R	Stream bank	Sidewall	735195	2468707
RM BK PRVW 503R	Stream bank	Sidewall	735222	2468698
RM BK PRVW 504R	Stream bank	Sidewall	735428	2468797
RM BK PRVW 505R	Stream bank	Sidewall	735411	2468600
RM BK PRVW 506R	Stream bank	Sidewall	735446	2468406
RM BK PRVW 507R	Stream bank	Sidewall	735557	2468365
RM BK PRVW 508R	Stream bank	Sidewall	735697	2468403
RM BK PRVW 509R	Stream bank	Sidewall	735668	2468237
RM BK PRVW 510R	Stream bank	Sidewall	735652	2468065
RM PRVF 020L 12-18"	Overbank	Floor	735144	2468693
RM PRVF 021L 12-18"	Overbank	Floor	735407	2468778
RM PRVF 022L 6-12"	Overbank	Floor	735415	2468735
RM PRVF 023L 6-12"	Overbank	Floor	735444	2468378
RM PRVF 024L 6-12"	Overbank	Floor	735682	2468295
RM PRVF 025L 6-12"	Overbank	Floor	735675	2468174
RM PRVF 026L 12-18"	Overbank	Floor	735697	2468130

Table 3. Proposed Post-Removal Verification Samples
Reach M
Hayton Area Remediation Project

Sample	In-channel <sup>1</sup>			
m	or Overbank	Туре	Northing	Easting
RM PRVF 027L 6-12"	Overbank	Floor	735683	2468131
RM PRVF 028L 6-12"	Overbank	Floor	735096	2468711
RM PRVF 029L 6-12"	Overbank	Floor	735410	2468714
RM PRVW 030L 12-18"	Overbank	Sidewall	735380	2468488
RM PRVW 030L 18-24"	Overbank	Sidewall	735380	2468488
RM PRVF 031L 6-12"	Overbank	Floor	735592	2468191
RM PRVW 032L 0-6"	Overbank	Floor	735382	2468468
RM PRVW 032L 6-12"	Overbank	Floor	735382	2468468
RM PRVF 515R 6-12"	Overbank	Floor	734797	2468786
RM PRVF 516R 6-12"	Overbank	Floor	735529	2468403
RM PRVF 517R 6-12"	Overbank	Floor	735728	2468365
RM PRVF 518R 6-12"	Overbank	Floor	735735	2468192
RM PRVF 519R 12-18"	Overbank	Floor	735662	2468065
RM PRVF 520R 6-12"	Overbank	Floor	735677	2468065

<sup>1</sup> The locations of in-channel samples may be adjusted, or additional in-channel samples may be added, based on visual cues observed during removal.

Table 4. Proposed Stream Bank PRV Samples - Reach M Hayton Area Remediation Project

		Streambank resented			
PRV Sample Name or Removal Zone	Upstream Station	Downstream Station	Description		
Right Bank					
RM BK PRVW 500R	284+00	286+00	Inner meander along M201		
RM BK PRVW 501R	286+00	287+60	Straight section		
RM BK PRVW 502R	287+60	289+50	Straight section opposite of M101 and M102		
RM BK PRVW 503R	289+50	291+20	Inner meander along M206 and M201A		
RM BK PRVW 504R	291+20	293+50	Outer meander along M202		
RM BK PRVW 505R	293+50	295+50	Straight section along M202 and M207		
RM BK PRVW 506R	295+50	297+20	Inner meander along M207 and M203		
RM BK PRVW 507R	297+20	298+50	Inner meander along M204		
RM BK PRVW 508R	298+50	300+40	Outer meander along M204		
RM BK PRVW 509R	300+40	302+00	Inner meander along M204		
RM BK PRVW 510R	302+00	304+00	Inner meander along M204 and M205		
Left Bank					
RM BK PRVW 012L	283+30	284+40	Straight section		
RM BK PRVW 001L	284+40	286+00	Outer meander opposite of M201		
RM BK PRVW 002L	286+00	287+60	Straight section up to start of M101		
RM BK PRVW 003L	287+60	289+50	Straight section along M101 and M102		
RM BK PRVW 004L	289+50	291+20	Outer meander		
RM BK PRVW 005L	291+20	293+00	Inner meander along M103 and M104		
RM BK PRVW 006L	293+00	294+00	Straight section along M105		
M105	294+00	295+40	24" removal		
RM BK PRVW 007L	295+40	296+80	Outer meander along M106		
M112	296+80	298+00	24" removal		
RM BK PRVW 008L	298+00	299+20	Inner meander along M113		
RM BK PRVW 009L	299+20	300+40	Inner meander along M108		
RM BK PRVW 010L	300+40	302+00	Outer meander along M107 and M109		
RM BK PRVW 011L	302+00	304+00	Outer meander along M109		

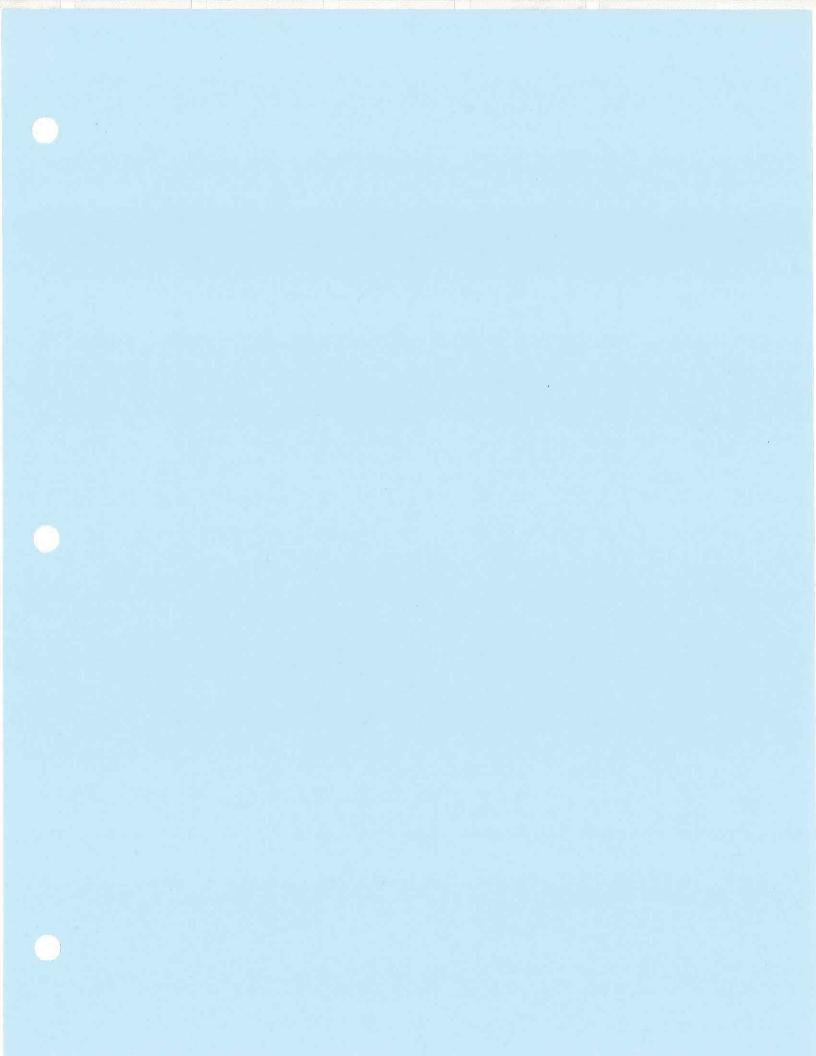


Table 1. In-Channel Sampling Location Summary HARP OU2/L & OU3

Sampling Point	Date	Northing	Easting	Elevation	Sampling Depth	Sediment Thickness	Average Sediment Thickness	Water Depth	Calculated Water Elevation	Average Water Elevation
		(State P	lane - ft)	(NAVD - ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
RI-222+30-IC	08/24/05	731,467.0	2,471,800.0	816.6	1.40	0.80	Reach I	1.55	818.2	Reach I
RI-227+00-IC	08/24/05	731,768.3	2,471,618.9	817.1	1.00	0.40	0.7	0.94	818.0	818.1
RI-231+30-IC	08/24/05	731,991.8	2,471,366.4	816.4	0.90	0.80		1.56	818.0	
RJ-232+50-IC	08/24/05	731,960.9	2,471,236.3	816.7	1.00	0.60		1.19	817.9	
RJ-234+50-IC	08/24/05	731,946.3	2,471,092.2	816.6	1.10	0.50		1.32	817.9	
RJ-237+00-IC	08/24/05	731,962.2	2,470,919.9	816.3	0.80	0.80 H	Reach J	1.41	817.7	Reach J
RJ-241+20-IC	08/24/05	732,197.4	2,470,774.5	816.6	0.80	0.50	0.6	1.31	817.9	817.8
RJ-243+50-IC	08/24/05	732,251.7	2,470,610.2	817.0	1.50	0.60		0.62	817.6	
RJ-247+70-IC	08/24/05	732,586.7	2,470,4 <del>6</del> 2.9	816.4	1.10	0.50		1.49	817.9	
RJ-249+40-IC	08/24/05	732,732.7	2,470,466.3	815.9	1.40	0.40		1.82	817.7	
RK-251+10-IC	08/24/05	732,817.5	2,470,353.7	815.8	1.20	0.30		1.87	817.7	
RK-252+50-IC	08/24/05	732,811.0	2,470,130.0	816.1	0.90	0.50		1.47	817.6	
RK-254+80-IC	08/24/05	732,843.0	2,470,022.3	815.6	0.90	0.50	Reach K	1.79	817.4	Reach K
RK-257+00-IC	08/24/05	733,009.0	2,469,849.9	816.1	0.80	0.25	0.4	1.29	817.4	817.1
RK-259+00-IC	08/24/05	733,146.1	2,469,890.4	815.8	1.50	0.40		1.49	817.3	
RK-263+50-IC	08/23/05	733,418.4	2,469,614.9	815.4	1.00	0.50		0.92	816.3	
RK-265+00-IC	08/23/05	733,552.9	2,469,534.0	815.3	1.40	0.60		0.70	816.0	
RL-266+40-IC	08/23/05	733,626.0	2,469,526.5	815.0	0.75	0.60		0.92	815.9	
RL-268+70-IC	08/23/05	733,743.1	2,469,405.5	814.7	1.20	0.60	Reach L	1.19	815.9	Reach L
RL-272+00-IC	08/23/05	734,038.0	2,469,413.2	814.9	0.70	0.20	0.6	1.18	816.1	816.0
RL-277+70-IC	08/23/05	734,440.9	2,469,334.3	814.5	0.80	0.70		1.36	815.9	
RL-282+00-IC	08/23/05	734,705.1	2,469,148.9	815.0	0.80	0.80 H		1.09	816.1	
RM-287+50-IC	08/23/05	735,053.8	2,468,763.3	814.6	1.00	0.50		1.15	815.8	
RM-290+00-IC	08/23/05	735,231.3	2,468,693.8	814.6	0.60	0.60 C	Reach M	0.94	815.5	Reach M
RM-293+30-IC	08/23/05	735,424.5	2,468,696.0	814.5	0.90	0.70	0.7	1.21	815.7	815.7
RM-295+40-IC	08/23/05	735,395.5	2,468,466.8	814.9	1.25	0.60		0.82	815.7	
RM-298+50-IC	08/23/05	735,595.0	2,468,395.8	814.6	1.30	0.90		1.09	815.7	
RN-304+50-IC	08/23/05	735,738.2	2,467,978.9	813.8	1.25	0.70		1.72	815.5	
RN-307+60-IC	08/23/05	735,832.4	2,467,838.2	814.3	0.80	0.80 H	Reach N	1.30	815.6	Reach N
RN-311+60-IC	08/23/05	736,013.6	2,467,550.3	814.5	1.30	0.70	0.8	0.87	815.4	815.5
RN-314+00-IC	08/23/05	736,171.1	2,467,397.8	814.3	0.90	0.90 C	I	1.08	815.4	
RN-317+00-IC	08/23/05	736,349.5	2,467,198.7	814.1	0.70	0.70 H		1.43	815.5	

Table 2. Sediment Poling Summary HARP OU2/L & OU3

Reach H	Poling	~   ~			ment Thick servations		Average Sediment Thickness (ft)		
	Location L	(State Pla	ane - ft)	Left Side	Center		Across Creek	Reach	
н	265	730,919.57	2,472,741.24	0.5	8,0	0.8	0.7	0.7	
,,	266	730,982.20	2,472,711.68	1.7	1.7	1.7	1,7		
	267	731,015.34	2,472,677.62	0.3	0,3	0.3	0.3		
	268	731,075.17	2,472,636.75	0.5	0.2	0.2	0.3		
	268A	731,152.30	2,472,595.78	0.5	0.3	0.3	0.4		
	269	731,272.09	2,472,478.67	0.8	0.8	0.3	0.6		
	270	731,411,25	2,472,318.05	0.7	0.7	0.7	0.7		
1	271	731,300,17	2,472,113.86	0.7	1.0	0.7	0.8	0.5	
-	272	731,328,58	2,472,065.83	0.3	0,5	0.5	0.4		
	273	731,477.46	2,471,894.80	0.5	0.5	0.5	0.5		
	274	731,514.30	2,471,772.68	0.2	0.5	0.8	0.5		
	275	731,535.45	2,471,779.23	0.5	0.5	0,5	0.5		
	276	731,694.86	2,471,788.77	0.5	0.5	0.5	0.5		
	276A	731,758.95	2,471,645.70	0.5	0.6	0,6	0.6		
	277	731,868.58	2,471,460.25	0.5	0.5	0.5	0.5		
J	278	731,954.97	2,471,252.06	0.5	0.5	0.5	0.5	0.5	
=	279	731,945.38	2,471,098.73	0.5	0.5	0.5	0.5		
	280	731,963.72	2,470,919.30	0.5	0.5	0.5	0.5		
	281	732,431.60	2,470,569.89	0.5	0,5	0.5	0.5		
	281A	732,529.05	2,470,492.65	0.6	0.6	0.6	0.6		
К	282	732,880.42	2,470,265.68	0.5	0.5	0.5	0.5	0,7	
•	283	732,827.64	2,470,186.64	0.6	0.6	0.6	0.6		
	284	732,896.30	2,469,896.79	1.0	0.5	1.0	0.8		
	285	733,202.12	2,469,766.35	0.8	0.8	0.8	0.8		
	285A	733,208.65	2,469,740.51	0.8	0.8	0.8	8.0		
	286	733,324.34	2,469,705.33	0.6	0.6	0.6	0.6		
L	287	733,924.73	2,469,425.82	0.6	0.6	0,6	0.6	0.6	
	288	734,045.91	2,469,409.89	0.8	8.0	0.8	0.8		
	289	734,158.31	2,469,275.71	0,6	0.6	0.6	0.6		
	290	734,290.95	2,469,259.97	0.6	0.6	0.6	0.6		
	290A	734,334.56	2,469,306.12	0.5	0.5	0.5	0.5		
	291	734,499.06	2,469,294.25	0.5	0.5	0.5	0.5		
	292	734,595.54	2,469,261.34	0.5	0.5	0.5	0.5		
	293	734,659.91	2,469,203.34	0.6	0.6	0.2	0.5		
	294	734,679.45	2,468,943.58	0.5	0.5	1.0	0.7		
М	295	734,753.61	2,468,797.58	1.0	1.0	1.0	1.0	0.6	
	296	734,924.88	2,468,780.06	0.5	0.5	0.8	0.6		
	297	735,027.67	2,468,783.37	0.5	0.5	0.5	0.5		
	297A	735,058.59	2,468,770.16	0.5	0.5	0.5	0.5		
	298	735,137.80	2,468,711.83	0.7	0.6	0.6	0.6		
	298A	735,225.50	2,468,698.14	0.6	0.6	0.6	0.6		
	299	735,357.62	2,468,782.76	0.6	0.6	0.6	0,6		
	300	735,432.04	2,468,698.48	0.6	0.6	0.6	0.6		
	301	735,389.87	2,468,558.65	0.5	0.5	0.5	0.5		
	301A	735,382.81	2,468,484.04	0.5	0.5	0.5	0.5		
	302	735,460.54	2,468,388.67	0.5	0.5	0.5	0.5		
	303	735,551.30	2,468,345.84	1.5	0.6	0.6	0.9		
	304	735,640.40	2,468,383.13	0.8	0.8	0.8	8.0		
	305	735,675.57	2,468,279.22	0.5	1.0	1.0	0.8		
	306	735,713.46	2,468,183.04	0.6	0.6	0.6	0.6		
	307	735,641.51	2,468,069.58	0.5	0.5	0.5	0.5		

Table 3. Overbank Sampling Location Summary HARP OU2/L & OU3

Sampling Point	Date	Northing	Easting	Elevation	Original Point or Step-Out	Sampling Depth
Point		(State	Plane - ft)	(NAVD - ft)	or otep out	(ft)
RL-272+00-W40	10/03/05	734,008.88	2,469,375.12	na	Sept/Oct. Step-Out	2.0
RL-274+40-S10	09/16/05	734,173.08	2,469,242.27	817.4	Original Point	2,25
RL-274+40-S30	09/16/05	734,150.52	2,469,231.67	818.5	Original Point	1.5
RL-275+80-E10	09/15/05	734.322.37	2,469,300.42	816.9	Original Point	2.5
RL-275+80-E40	09/30/05	734,298.73	2,469,318.89	na	Sept/Oct. Step-Out	2.2
RL-277+70-E20	09/15/05	734,471.47	2,469,350.19	817.4	Original Point	2.3
RL-277+70-W10	09/16/05	734,428.24	2,469,330,36	816.8	Original Point	2.5
RL-277+70-W40	09/16/05	734,397.22	2,469,309.30	818.1	Original Point	2.0
RL-278+00-W100	09/16/05	734,417.98	2,469,254.17	818.5	Original Point	2.0
RL-279+50-E100	09/15/05	734,619.99	2,469,371,39	817.3	Original Point	2.75
RL-280+10-E10	09/16/05	734,682,17	2,469,221.47	818.2	Original Point	2.75
RL-280+10-E30	09/16/05	734.697.05	2,469,239,68	818.0	Original Point	2.5
RL-280+10-W15	09/16/05	734,649.65	2,469,198.43	817.2	Original Point	2.25
RL-280+10-W30	09/16/05	734,632.42	2,469,188.11	818.0	Original Point	1.75
RL-280+10-W5	09/16/05	734,660,53	2.469.202.11	816.6	Original Point	2.25
RL-281+80-S15	09/16/05	734.694.25	2,469,081.95	817.2	Original Point	2.0
RL-281+80-S40	09/16/05	734,673.14	2,469,109,90	817.7	Original Point	2.0
RL-281+90-S5	09/16/05	734,704.55	2,469,068.05	817.3	Original Point	1.5
RL-282+50-N20	09/16/05	734,704.95	2,469,001.41	817.9	Original Point	2.0
RL-282+50-N40	10/03/05	734,724.84	2,469,003.50	na	Sept/Oct. Step-Out	1,5
RL-282+50-S10	10/03/05	734.650.25	2,469,000.72	na	Sept/Oct. Step-Out	1.5
RL-282+50-S30	11/14/05	734,630,25	2,469,000.72	na	Nov. Step-Out	2.0
	09/16/05	734,798.54	2,468,809,97	817.5	Original Point	1.75
RM-285+50-E30 RM-285+50-E5	09/16/05	734,795.33	2,468,785.60	816.5	Original Point	2.0
RM-285+50-W25	09/16/05	734,793.33	2,468,743.04	818.3	Original Point	2.0
RM-285+50-W5	09/16/05	734,793.63	2,468,758.02	818.1	Original Point	2.25
	09/20/05	735,064,77	2,468,785.83	817.4	Original Point	2,0
RM-287+50-E15	09/19/05	735,035.66	2,468,725.94	817.2	Original Point	2.0
RM-287+50-W30	09/19/05	735,035.66	2,468,751.71	816.5	Original Point	2.0
RM-287+50-W5	10/03/05	735,047.79	2,468,708.44	na	Sept/Oct. Step-Out	2.25
RM-287+50-W50			2,468,699.33	817.8	Original Point	2.0
RM-289+00-W10	09/19/05	735,133.93	2,468,671.72	017.0 na	Sept/Oct, Step-Out	2.0
RM-289+00-W40	10/03/05	735,122.21	2,468,811,11	816.7	Original Point	2.0
RM-290+00-E100	09/20/05	735,229.65	2,468,511.11	816.8	Original Point	2.5
RM-290+00-W100	09/19/05	735,217.10		817.4	Original Point	2.0
RM-292+30-N10	09/19/05	735,424.73	2,468,815.42		Sept/Oct. Step-Out	2.25
RM-292+30-N40	10/03/05	735,441.51	2,468,840.29	na 817.5	Original Point	2.23
RM-292+30-S10	09/19/05	735,399.51	2,468,783.39 2.468,758.21	817.4	Original Point	2.75
RM-292+30-S40	09/19/05	735,378.54		817.1	Original Point	2,73
RM-292+30-S80	09/19/05	735,355.81	2,468,732.81	817.7	Original Point	2.0
RM-293+30-N10	09/19/05	735,442.06	2,468,687.64		Sept/Oct, Step-Out	2.0
RM-293+30-N40	10/03/05	735,471,29	2,468,680.89	na 816.9	Original Point	2.0
RM-293+30-S10	09/19/05	735,408.43	2,468,706.49		Y	2.5
RM-293+30-S30	09/19/05	735,382.82	2,468,717.98	816.1	Original Point	2.25
RM-294+20-S10	10/03/05	735,383.62	2,468,619.98	na	Sept/Oct. Step-Out	2.75
RM-294+20-S30	10/03/05	735,361.40	2,468,621.65	na	Sept/Oct. Step-Out	2.75
RM-296+50-E20	09/19/05	735,480.97	2,468,419.92	816.7	Original Point	2.0
RM-296+50-E50	10/03/05	735,499.44	2,468,443.56	na 047.0	Sept/Oct. Step-Out	1.5
RM-296+50-W10	09/19/05	735,439.79	2,468,379.99	817.6	Original Point	2.25
RM-296+50-W40	09/19/05	735,415.47	2,468,357.64	816.6	Original Point	
RM-296+50-W60	10/03/05	735,401.33	2,468,343.50	na	Sept/Oct. Step-Out	2.25
RM-297+90-E10	09/19/05	735,553.83	2,468,381.09	816.8	Original Point	2.0
RM-297+90-E25	09/19/05	735,558.41	2,468,393.75	817.0	Original Point	2.5
RM-297+90-E50	10/03/05	735,565.30	2,468,417.78	na	Sept/Oct. Step-Out	2.0
RM-298+00-W120	10/03/05	735,493.05	2,468,233.88	na	Sept/Oct. Step-Out	2.0

Table 3. Overbank Sampling Location Summary HARP 0U2/L & 0U3

Sampling Point	Date	Northing	Easting	Elevation	Original Point or Step-Out	Sampling Depth
Point		(State	Plane - ft)	(NAVD - ft)	or otep-our	(ft)
RM-298+90-E100	09/19/05	735,647.14	2,468,497.34	816.6	Original Point	1.75
RM-298+90-E120	10/03/05	735,650.27	2,468,517.09	na	Sept/Oct. Step-Out	2.0
RM-299+90-N15	09/19/05	735,737.95	2,468,343,22	816.7	Original Point	1.75
RM-299+90-N40	10/03/05	735,760.02	2,468,354.95	na	Sept/Oct. Step-Out	2.75
RM-299+90-N60	11/14/05	735,780.01	2,468,355.65	na	Nov. Step-Out	3.0
RM-299+90-S10	09/19/05	735,693.28	2,468,337.92	816.7	Original Point	2.0
RM-299+90-S20	09/19/05	735,677.97	2,468,335.84	817.1	Original Point	2.0
RM-299+90-S50	10/03/05	735,648.43	2,468,330,63	na	Sept/Oct. Step-Out	2.0
RM-301+00-N10	09/19/05	735,685.25	2,468,231.70	816.7	Original Point	2.25
RM-301+00-N30	09/19/05	735,709.99	2,468,231.91	816.6	Original Point	2.5
RM-301+00-N60	10/03/05	735,739.77	2,468,235.56	na	Sept/Oct, Step-Out	2.0
RM-301+00-N80	11/14/05	735,759.57	2,468,238.35	na	Nov. Step-Out	3.0
RM-301+00-S100	09/19/05	735,550.90	2,468,236.86	816.3	Original Point	2.25
RM-301+40-N40	11/14/05	735,734.59	2,468,195.43	па	Nov. Step-Out	3.0
RM-302+20-S10	09/19/05	735,685.79	2,468,121.60	816.8	Original Point	2.5
RM-302+20-S185	10/03/05	735,529.51	2,468,195.26	na	Sept/Oct. Step-Out	2.0
RM-302+20-S30	09/19/05	735,660.98	2,468,129.02	816.8	Original Point	2.0
RM-302+20-S70	09/19/05	735,634.57	2,468,148.49	816.4	Original Point	2.0
RM-303+10-N40	11/14/05	735,707.04	2,468,086,35	na	Nov. Step-Out	4.0
RM-303+30-N10	09/19/05	735,665.44	2,468,064,35	816.8	Original Point	2.25
RM-303+30-N25	09/19/05	735,681.30	2,468,067.05	816.7	Original Point	2.0
RM-303+30-N50	09/19/05	735,720.05	2,468,074.64	816.8	Original Point	2.25
RM-303+30-N70	10/03/05	735,738,96	2,468,081.15	na	Sept/Oct. Step-Out	2.0
RM-303+30-N90	11/14/05	735,758.18	2,468,086.66	na	Nov. Step-Out	3.0
RM-303+50-N40	11/14/05	735,717.78	2,468,048.74	na	Nov. Step-Out	4.5
RN-305+90-N10	09/20/05	735,719,25	2,467,898.06	816.7	Original Point	2.5
RN-305+90-N60	09/20/05	735,757.43	2,467,914.60	816.3	Original Point	2.0
RN-305+90-N90	10/04/05	735,783.92	2,467,928.68	na	Sept/Oct. Step-Out	2.0
RN-305+90-S10	09/20/05	735,682.47	2,467,881.64	816.9	Original Point	2.0
RN-305+90-S40	10/04/05	735,653,94	2,467,872,37	na	Sept/Oct. Step-Out	2.6
RN-307+60-S10	09/20/05	735,822.01	2,467,831.96	816.8	Original Point	2.25
RN-307+60-S50	09/20/05	735,776.87	2,467,814.53	816,6	Original Point	2.0
RN-307+60-S80	10/04/05	735,749.05	2,467,803.29	na	Sept/Oct. Step-Out	3.0
RN-307+80-S90	11/14/05	735,739.47	2,467,776.98	па	Nov. Step-Out	3.0
RN-308+30-N10	09/20/05	735,824.12	2,467,764.72	816.4	Original Point	2.0
RN-308+30-N100	10/04/05	735,904.87	2,467,788.51	na	Sept/Oct. Step-Out	2.0
RN-308+30-N60	09/20/05	735,867,28	2,467,774.83	817.2	Original Point	2.0
RN-309+40-N10	09/20/05	735,889,74	2,467,682,43	815.8	Original Point	2.5
RN-309+40-N40	09/20/05	735,924.06	2,467,694.90	816.9	Original Point	2.0
RN-309+40-S10	09/20/05	735.840.29	2,467,657.22	816.1	Original Point	2.25
RN-309+40-S40	09/20/05	735,801.80	2,467,657.68	815.3	Original Point	3.0
RN-309+40-S70	10/04/05	735,771.84	2,467,659,25	na	Sept/Oct. Step-Out	2.75
RN-309+40-S90	11/14/05	735,750.84	2,467,659.25	na	Nov. Step-Out	3.0
RN-311+00-W100	09/20/05	735,912.18	2,467,480.67	816.4	Original Point	2.0
RN-311+60-E10	09/20/05	736,027.24	2,467,565.71	816.5	Original Point	2.0
RN-311+60-E40	09/20/05	736,057.78	2,467,577.57	816.4	Original Point	2.0
RN-311+60-E80	09/20/05	736,096.93	2,467,593.65	816.7	Original Point	2.0
RN-311+60-W10	09/20/05	735,991.88	2,467,529.98	816.9	Original Point	2.75
RN-311+60-W10	10/04/05	735,991.00	2,467,513.20	na	Sept/Oct, Step-Out	3.0
RN-313+00-E100	09/20/05	736,071.69	2,467,553.64	816.5	Original Point	2.25
RN-313+00-E100 RN-315+50-E10	09/20/05	736,071.69	2,467,333.04	815.7	Original Point	2.0
RN-315+50-E10	09/20/05	736,288.09	2,467,319.10	816.6	Original Point	2.0
RN-315+50-E30 RN-315+50-E50	10/04/05	736,317.35	2,467,319.10	na	Sept/Oct. Step-Out	1.3
RN-315+50-E50 RN-315+50-W10	09/20/05	736,254.47	2,467,326.49	816.6	Original Point	2.5

Table 4. In-Channel Analytical Results Summary HARP OU2/L & OU3

Sample Location and	Sample	Percent		<del></del>	<del></del>		<del></del>	PC	B Aroclor	s (mo	ı/ka)	···	<del></del>			Total PCE	
Depth (Inches)	Date	Solids	1016		1221		1232		1242	<u> </u>	1248	1	1254	Г	1260	(mg/kg)	
RK-252+50-IC 6 - 8	10/04/05	66.4	< 0.040	<	0.040	<	0.040	<	0.040	<	0.040	<	0.040	<	0.040	< 0.04	A
RK-254+80-IC 0 - 6	08/24/05	34,8	< 0.076	<	0.076	<	0.076	~	0.076		0.700	1	2.400		0.640	3.70	_
RK-254+80-IC 6 - 9	08/24/05	44.8	< 0.059	<	0.059	_<	0.059	<	0.059	~	0.059	<	0.059	<	0.059	< 0.05	_
RK-257+00-IC 0 - 3	08/24/05	50.5	< 0.053	<	0.053	٧	0.053	٧	0.053		0.380		0.960	<u> </u>	0.240	1.60	0
RK-257+00-IC 3 - 8	08/24/05	47.0	< 0.280	<	0.280	<	0.280	٧	0.280		1.100		0.610 Q		0.290 Q	2.00	0
RK-257+00-IC 8 - 10	08/24/05	72.4	< 0.073	<	0.073	7	0.073	٧	0.073	<	0.073		0.530		0.100 Q	0.63	0
RK-259+00-IC 0 - 5	08/24/05	28.1	< 0.094	<	0.094	<	0.094	7	0.094		0.380		1.600		0.460	2.40	0
RK-259+00-IC 5 - 18	08/24/05	38.0	< 0.070	<	0.070	<	0.070	<	0.070	<	0.070	T	0.070 Q	<	0.070	0.07	0 Q
RK-263+50-IC 0 - 6	08/23/05	40.5	< 0.066	<	0.066	_	0.066	<	0.066	<	0.066		0.880		0.200 Q	1.10	10
RK-263+50-IC 6 - 8	08/23/05	48.4	< 0.055	<	0.055	<	0.055	<	0.055	<	0.055	<	0.055	<	0.055	< 0.05	5
RK-265+00-IC 0 - 7	08/23/05	52.1	< 0.051	<	0.051	<	0.051	<	0.051	<	0.051		1.400		0.360	1.80	0
RK-265+00-IC 7 - 17	08/23/05	37.6	< 0.071	<	0.071	٧	0.071	<	0.071	<	0.071		0.084 Q	<	0.071	90.0	4 Q
RL-266+40-IC 0 - 7	08/23/05	46.3	< 0.057	<	0.057	<	0.057	<	0.057	<	0.057		0.620		0.150 Q	0.77	0
RL-266+40-IC 7 - 9	08/23/05	69.2	< 0.038	<	0.038	<	0.038	<	0.038	<	0.038		0.076 Q	<	0.038	0.07	6 Q
RL-268+70-IC 0-7	08/23/05	39.4	< 0.067	<	0.067	<	0.067	٧	0.067	<	0.067		0.640		0.150 Q	0.79	0
RL-268+70-IC 7 - 14	08/23/05	47.3	< 0.056	<	0.056	<	0.056	<	0.056	<b>~</b>	0.056	<	0.056	<	0.056	< 0.05	6
RL-272+00-IC 0 - 2	08/23/05	63.8	< 0.042	<	0.042	~	0.042	_	0.042	<	0.042		0.410		0.094 Q	0.51	0
RL-272+00-IC 2 - 8	08/23/05	68.6	< 0.039	<	0.039	٧	0.039	~	0.039	٧	0.039	T	0.240		0.055 Q	0.30	·O
RL-277+70-IC 0 - 8	08/23/05	58.8	< 0.045	<	0.045	<	0.045	<	0.045	<	0.045		0.580		0.120 Q	0.70	0
RL-277+70-IC 8 - 10	08/23/05	69.7	< 0.038	<	0.038	<	0.038	٧	0.038	<	0.038		0.088 Q	<	0.038	0.08	8 Q
RL-282+00-IC 0 - 10	08/23/05	64.3	< 0.041	<	0.041	<	0.041	٧	0.041	٧	0.041		1.300		0.270	1.60	0
RM-287+50-IC 0 - 6	08/23/05	na	< 0.047	<	0.047	~	0.047	٧	0.047	٧	0.047		0.750		0.160	0.91	0
RM-287+50-IC 6 - 12	08/23/05	61.2	< 0.043	<	0.043	<	0.043	٧.	0.043	٧	0.043	<	0.043	<	0.043	< 0.04	3
RM-290+00-IC 0 - 7	08/23/05	57.7	< 0.046	<	0.046	٧.	0.046	٧	0.046	٧	0.046		0.650	<u> </u>	0.140 Q	0.79	0
RM-293+30-IC 0 - 8	08/23/05	44.8	< 0.059	<	0.059	<	0.059	٧	0.059	٧	0.059		0.900		0.190 Q	1.10	0
RM-293+30-IC 8 - 11	08/23/05	78.9	< 0.034	<	0.034	٧	0.034	٧.	0.034	٧	0.034	<	0.034	<	0.034	< 0.03	4
RM-295+40-IC 0 - 7	08/23/05	58.4	< 0.045	<	0.045	٧.	0.045	٧	0.045	٧	0.045		1.200		0.250	1.50	
RM-295+40-IC 7 - 12	08/23/05	56.1	< 0.047	<	0.047	<	0.047	<	0.047	<	0.047	<	0.047	<	0.047	< 0.04	
RM-298+50-IC 0 - 11	08/23/05	50.3	< 0.053	<	0.053	<	0.053	<	0.053	٧	0.053		0.380		0.088 Q	0.47	
RN-304+50-IC 0 - 7	08/23/05	38.3	< 0.069	<	0.069	<	0.069	<	0.069	٧	0.069	<u> </u>	1.100	<u> </u>	0.310	1.40	
RN-304+50-IC 7 - 15	08/23/05	49.0	< 0.054	<	0.054	<	0.054	_	0.054		0.054		0.076 Q	<	0.054	0.07	
RN-307+60-IC 0 - 10	08/23/05	42.1	< 0.063	<_	0.063	<	0.063	٧_	0.063	<	0.063		1.300	ļ	0.340	1.60	
RN-311+60-IC 0 - 8	08/23/05	56.4	< 0.047	<	0.047	<	0.047	<_	0.047	٧.	0.047	<u> </u>	0.800	ļ	0.180	0.98	
RN-311+60-IC 8 - 10	08/23/05	77.9	< 0.034	<	0.034	<	0.034	<_	0.034	<	0.034	<u> </u>	0.060 Q		0.034	0.06	
RN-314+00-IC 0 - 11	08/23/05	52.4	< 0.051	<	0.051	<	0.051	<	0.051	<	0.051	<u> </u>	1.500	L	0.260	1.80	_
RN-317+00-IC 0 - 8	08/23/05	28.8	< 0.092	<	0.092	<	0.092	<	0.092	٧	0.092	<u> </u>	1.200	<u> </u>	0.300 Q	1,50	
RO-319+60-IC 0 - 9	08/23/05	32.9	< 0.081	<	0.081	<	0.081	<	0.081	٧	0.081	<u> </u>	1.700		0.450	2.10	
RO-319+60-IC 9 - 12	08/23/05	74.7	< 0.036	<	0.036	<	0.036	<	0.036	٧	0.036		0.075 Q	<	0.036	0.07	
RO-323+20-IC 0 - 6	08/23/05	25.7	< 0.100	<	0.100	<	0.100	_<	0.100	٧	0.100	<u> </u>	2.500		0.570	3.10	
RO-323+20-IC 6 - 9	08/23/05	60.9	< 0.044	<	0.044	<	0.044	<	0.044	٧	0.044	<u> </u>	0.210		0.047 Q	0.26	
RO-326+00-IC 0 - 14	08/23/05	45.8	< 0.058	<	0.058	<	0.058	<	0.058	<	0.058	<b></b>	0.260	<u> </u>	0.058	0.26	
RO-327+70-IC 0 - 6	08/23/05	27.8	< 0.095	<	0.095	<	0.095	<	0.095	<	0.095	<u> </u>	1.200		0.320 Q	1.50	0

Table 5. Overbank Analytical Results Summary HARP OU2/L & OU3

Sample Location and	Sample	Percent												То	tal PCBs	
Depth (Inches)	Date	Solids	1016	1	1221	1232	T	1242		1248	<u> </u>	1254		1260	(	mg/kg)
RL-272+00-E20 0 - 6	09/15/05	78.4	< 0.034	< (	0.034	< 0.034	<	0.034	<	0.034		0.200	***************************************	0.230	en e	0.430
RL-272+00-W10 0 - 6	09/15/05	71.3	< 0.560	< {	0.560	< 0.560	<b> </b>	0.560	<	0.560		7.100		2.100		9.200
RL-272+00-W10 6 - 12	09/15/05	69.9	< 0.038		0.038	< 0.038	17	0.038	<	0.038		0.560		0.150		0.720
RL-272+00-W40 0 - 6	10/03/05	61.8	< 0.043	< (	0.043	< 0.043	<b>-</b>	0.043	<	0.043	_	0.280		0.094 Q		0.370
RL-274+40-S10 0-6	09/16/05	69.4	< 0.110	< (	0.110	< 0.110	<	0.110	<	0.110		1.700		0.340 Q		2.000
RL-274+40-S30 0-6	09/16/05	74.4	< 0.036	< (	0.036	< 0.036	<	0.036	<	0.036		0.052 Q	<	0.036		0.052 Q
RL-275+80-E10 0 - 6	09/15/05	63,4	< 0.630	< (	0.630	< 0.630	<	0.630	<	0.630		6.100		2.200		8.300
RL-275+80-E10 6 - 12	09/15/05	57.4	< 1,900		1.900	< 1.900	<b> </b> <	1.900	<	1.900		19.000		5.500 Q		25.000
RL-275+80-E10 12 - 30	09/15/05	73.7	< 0.036	< 0	0.036	< 0.036	<	0.036	<	0.036	<	0.036	<	0.036	<	0.036
RL-275+80-E40 0 - 6	09/30/05	63.3	< 0.042	< (	0.042	< 0.042	<b> </b>	0.042	<	0.042		0.260		0.053 Q		0.310
RL-277+70-E20 0 - 6	09/15/05	65.6	< 0.200	< (	0.200	< 0.200	<b> </b>	0.200	<	0.200		2.700		0.700		3.400
RL-277+70-E20 6 - 12	09/15/05	59.2	< 0.045	< (	0.045	< 0.045	7	0.045	<	0.045		0.260		0.086 Q		0.350
RL-277+70-W10 0 - 6	09/16/05	55.0	< 0.960	< (	0.960	< 0.960	<	0.960	<	0.960		9.000		2.400 Q		11.000
RL-277+70-W10 6 - 12	09/16/05	43.9	< 2.400	< 2	2.400	< 2.400	<	2.400	<	2.400		22.000		6.400 Q		29.000
RL-277+70-W10 12 - 24	09/16/05	41.9	< 0.320	< 0	0.320	< 0.320	<	0.320	<	0.320		2.400		0.680 Q		3.100
RL-277+70-W40 0 - 6	09/16/05	73.6	< 0.180	< 0	0.180	< 0.180	<	0.180	<	0.180		2.600		0.590 Q		3.200
RL-278+00-W100 0 - 6	09/16/05	73.7	< 0.036	< (	0.036	< 0.036	<	0.036	<	0.036		0.160		0.036 Q		0.190
RL-279+50-E100 0 - 6	09/15/05	58.2	< 0.091	< 0	0.091	< 0.091	<b> </b> <	0.091	<	0.091		1.500		0.440		1.900
RL-280+10-E10 0 - 6	09/16/05	69.0	< 0.120	< (	0.120	< 0.120	<	0.120	<	0.120		1.700		0.360 Q		2.000
RL-280+10-E30 0 - 6	09/16/05	70.1	< 0.038	< (	0.038	< 0.038	7	0.038	<	0.038		0.280		0.055 Q		0.330
RL-280+10-W15 0 - 6	09/16/05	70.0	< 1.100	< 1	1.100	< 1.100	<	1.100	<	1.100		12.000		2.900 Q		15.000
RL-280+10-W15 6 - 12	09/16/05	67.6	< 0.079	< 0	0.079	< 0.079	<	0.079	<	0.079		0.980		0.210 Q		1.200
RL-280+10-W30 0 - 6	09/16/05	73.8	< 0.180	< 0	0.180	< 0.180	<	0.180	<	0.180		2.300		0.530 Q		2.800
RL-280+10-W5 0 - 6	09/16/05	50.0	< 0.800	< (	0.800	< 0.800	<	0.800	<	0.800		7.000		1.900 Q		9.000
RL-280+10-W5 6 - 12	09/16/05	43.1	< 0.310	< (	0.310	< 0.310	<	0.310	<	0.310		5.900		1.600		7.500
RL-280+10-W5 12 - 18	09/16/05	64.9	< 0.120	< 0	0.120	< 0.120	<	0.120	<	0.120		1.500		0.440		1.900
RL-281+80-S15 0 - 6	09/16/05	63.2	< 1.700	< 1	1.700	< 1.700	<	1.700	<	1.700		21.000		4.100 Q		25.000
RL-281+80-S15 6 - 12	09/16/05	63.7	< 0.083	< (	0.083	< 0.083	<	0.083	<	0.083	l	1.200		0.240 Q		1,400
RL-281+80-S40 0 - 6	09/16/05	70.5	< 0.110	< 0	0.110	< 0.110	<	0.110	<	0.110		1.600		0.330 Q		1.900
RL-281+90-S5 0 - 6	09/16/05	62.8	< 0.850	< (	0.850	< 0.850	<	0.850	<	0.850		8.100		2.100 Q		10,000
RL-281+90-S5 6 - 12	09/16/05	58.0	< 1.400	< 1	1.400	< 1.400	<	1.400	<	1.400		14.000		3.100 Q		17.000
RL-281+90-S5 12 - 18	09/16/05	57.0	< 1.900	< 1	1.900	< 1.900	<	1.900	<	1.900		20.000		4.800 Q		25.000
RL-282+50-N20 0 - 6	09/16/05	66.8	< 0.240	< 0	0.240	< 0.240	<	0.240	<	0.240		3.400		0.710 Q		4.100
RL-282+50-N40 0 - 6	10/03/05	72.7	< 0.037	< (	0.037	< 0.037	<	0.037	<	0.037		0.065 Q	٧	0.037		0.065 Q
RL-282+50-S10 0-6	10/03/05	70.1	< 0.380	< 0	0.380	< 0.380	<	0.380	<	0.380		4.800		1.200 Q		6.000
RL-282+50-S10 6 - 12	10/03/05	78.0	< 0.034	< 0	0.034	< 0.034	<	0.034	<	0.034		0.080 Q		0.040 Q		0.120
RL-282+50-S30 0 - 6	11/14/05	68.0	< 0.039	< 0	0.039	< 0.039	<	0.039	<	0.039		0.088 Q	<	0.039		Q 880.0
RL-282+50-S30 6 - 12	11/14/05	79.8	< 0.033	< (	0.033	< 0.033	<	0.033	<	0.033	<	0.033	٧	0.033	<	0.033
RL-282+50-S30 12 - 24	11/14/05	81.5	< 0.033	< 0	0.033	< 0.033	<	0.033	<	0.033	٧	0.033	<	0.033	<	0.033
RM-285+50-E30 0 - 6	09/16/05	71.0	< 0.260	< 0	0.260	< 0.260	<	0.260	<	0.260		3.500		0.590 Q		4.100
RM-285+50-E5 0 - 6	09/16/05	49.4	< 0.810	< C	0.810	< 0.810	<	0.810	<	0.810		9.000		2.300 Q		11.000
RM-285+50-E5 6 - 12	09/16/05	55.3	< 0.240	< 0	).240	< 0.240	<	0.240	<	0.240		3.000		0.770 Q		3.800

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Table 5. Overbank Analytical Results Summary HARP OU2/L & OU3

Sample Location and	Sample	Percent					<del></del>		РСВ	Aroclors	(ma/k	α)				Total PCBs
Depth (Inches)	Date	Solids		1016		1221	T	1232		1242	Ì	1248	1254		1260	(mg/kg)
RM-285+50-W25 0 - 6	09/16/05	84,8	<	0.031	<	0.031	<	0.031	<	0.031	<	0.031	0.150		0.062 Q	0.210
RM-285+50-W5 0 - 6	09/16/05	75.2	<	0.110	~	0.110	<b> </b>	0.110	<	0.110	<	0.110	1.100		0.500	1.600
RM-287+50-E15 0 - 6	09/20/05	61.3	<	0.170	<	0.170	<	0.170	<	0.170	<	0.170	2.900		0.650	3.600
RM-287+50-W30 0 - 6	09/19/05	72.2	<	0.370	<	0.370	<	0.370	<	0.370	<	0.370	4.800		0.860 Q	5.700
RM-287+50-W30 6 - 12	09/19/05	74.7	<	0.036	<	0.036	<	0.036	<	0.036	<	0.036	0.190	<	0.036	0.190
RM-287+50-W5 0 - 6	09/19/05	59.5	<	0.670	<	0.670	<	0.670	<	0.670	<	0.670	6.200		1.200 Q	7.400
RM-287+50-W5 6 - 12	09/19/05	60.1	<	0.044	<	0.044	<	0.044	<	0.044	<	0.044	0.190	<	0.044	0.190
RM-287+50-W50 0 - 6	10/03/05	74.2	<	0.036	<	0.036	<	0.036	<	0.036	<	0.036	0.350		0.070 Q	0.420
RM-289+00-W10 0 - 6	09/19/05	71.2	<	1.500	<	1.500	<	1.500	٧	1.500	<	1.500	17.000		3.200 Q	20.000
RM-289+00-W10 6 - 12	09/19/05	76.3	<	0.520	<	0.520	<	0.520	٧_	0.520	<	0.520	8.000		1.400 Q	9.400
RM-289+00-W10 12 - 24	09/19/05	63.7	<	0.042	<	0.042	<	0.042	<	0.042	<	0.042	0.570		0.140	0.710
RM-289+00-W40 0 - 6	10/03/05	71.1	<	0.150	<	0.150	<	0.150	<	0.150	<	0.150	1.500		0.330 Q	1.800
RM-290+00-E100 0 - 6	09/20/05	61.2	<	0.087	<	0.087	<	0.087	<	0.087	<	0.087	1.500		0.340	1.800
RM-290+00-W100 0 - 6	09/19/05	66.1	<	0.280	<	0.280	<	0.280	٧	0.280	<	0.280	3.100		0.630 Q	3.800
RM-292+30-N10 0 - 6	09/19/05	55.4	٧	0.480	<	0.480	<	0.480	<	0.480	<	0.480	7.800		1.300 Q	9.000
RM-292+30-N10 6 - 12	09/19/05	57.5	٧	0.046	<	0.046	<	0.046	<_	0.046	<	0.046	0.170	<	0.046	0.170
RM-292+30-N10 12 - 24	09/19/05	48.4	· ·	0.055	<	0.055	<	0.055	<	0.055	<	0.055	0.130 Q	<	0.055	0.130 Q
RM-292+30-N40 0 - 6	10/03/05	43.9	<	0.061	<	0.061	<	0.061	<	0.061	<	0.061	0.610		0.170 Q	0.780
RM-292+30-S10 0-6	09/19/05	72.0	<	0.920	<	0.920	<	0.920	<	0.920	<	0.920	8.000		2.200 Q	10.000
RM-292+30-S10 6 - 12	09/19/05	67.0	٧	1.600	<	1.600	<	1.600	٧	1.600	<	1.600	23.000		4.900 Q	28.000
RM-292+30-S10 12 - 24	09/19/05	64.1	<	0.170	<	0.170	<	0.170	٧	0.170	<	0.170	1.700		0.440 Q	2.200
RM-292+30-S40 0-6	09/19/05	62.5	٧	0.640	<	0.640	<	0.640	٧	0.640	<	0.640	6.300		1.200 Q	7.500
RM-292+30-\$40 6 - 12	09/19/05	80.0	<	0.033	<	0.033	<	0.033	٧	0.033	<	0.033	0.160	<	0.033	0.160
RM-292+30-S80 0-6	09/19/05	69.2	<	0.350	<	0.350	<	0.350	<	0.350	<	0.350	3.700		0.700 Q	4.400
RM-293+30-N10 0 - 6	09/19/05	60.4	<	1.300	<	1.300	<	1.300	<	1,300	<	1.300	16.000	ļ	3.000 Q	19.000
RM-293+30-N10 6 - 12	09/19/05	69.1	<	0.038	<	0.038	<	0.038	<	0.038	<	0.038	0.490		0.087 Q	0.580
RM-293+30-N40 0 - 6	10/03/05	56,4	٧	0.014	<	0.014	<	0.014	<	0.014	<	0.014	0.130		0.030 Q	0.160
RM-293+30-S10 0-6	09/19/05	71.2	٧	0.220	<	0.220	<	0.220	<	0.220	<	0.220	2.400		0.570 Q	3.000
RM-293+30-S30 0-6	09/19/05	54.5	<	0.970	<	0.970	<	0.970	٧	0.970	<	0.970	8.800		1.800 Q	11.000
RM-293+30-S30 6 - 12	09/19/05	65.7	<	0.040	<	0.040	<	0.040	٧	0.040	<	0.040	0.098 Q	<	0.040	0.098 Q
RM-294+20-S10 0-6	10/03/05	58.0	<	1.800	<	1.800	<	1.800	<	1.800	<	1.800	22.000		5.600 Q	28.000
RM-294+20-S10 6 - 12	10/03/05	58.6	<	2.300	<	2.300	<	2.300	<	2.300	<	2.300	25.000		5.300 Q	30.000
RM-294+20-S10 12 - 21	10/03/05	59.4	<	0.045	<	0.045	<	0.045	<	0.045	<	0.045	0.120 Q	<	0.045	0.120 Q
RM-294+20-S30 0 - 6	10/03/05	67.6	<	0.079	٧.	0.079	<	0.079	<	0.079	<	0.079	0.940		0.190 Q	1.100
RM-296+50-E20 0 - 6	09/19/05	57.0	<	0.700	<	0.700	<	0.700	<	0.700	<	0.700	6.100		1.200 Q	7.300
RM-296+50-E20 6 - 12	09/19/05	64.4	٧	0.620	<	0.620	<	0.620	<	0.620	<	0.620	5.100		1.400 Q	6.500
RM-296+50-E20 12 - 24	09/19/05	62.1	<	0.043	<	0.043	<	0.043	٧	0.043	<	0.043	0.100 Q	<	0.043	0.100 Q
RM-296+50-E50 0 - 6	10/03/05	57.0	<	0.190	<	0.190	<	0.190	<	0.190	<	0.190	1.900	L	0.380 Q	2.200
RM-296+50-W10 0 - 6	09/19/05	69.8	٧	0.380	<	0.380	<	0.380	<	0.380	<	0.380	9.400		1.900	11.000
RM-296+50-W10 6 - 12	09/19/05	71.1	٧	0.150	<	0.150	<	0.150	<	0.150	<	0.150	1,900		0.410 Q	2.300
RM-296+50-W40 0 - 6	09/19/05	62.4	<	0.430	<	0.430	<	0.430	<	0.430	<	0.430	4.900		0.900 Q	5.800
RM-296+50-W40 6 - 12	09/19/05	57.4	<	0.046	٧	0.046	<	0.046	٧	0.046	<	0.046	0.230		0.049 Q	0.280

Table 5. Overbank Analytical Results Summary HARP OU2/L & OU3

Sample Location and	Sample	Percent							PCB	Aroclors	(mg/k	g)	-				Tota	al PCBs
Depth (Inches)	Date	Solids		1016		1221		1232		1242	Ì	1248		1254		1260	(m	ng/kg)
RM-296+50-W60 0 - 6	10/03/05	61.6	<	0.043	<	0.043	<	0.043	<	0.043	<	0.043	1	0.230		0.049 Q		0.280
RM-297+90-E10 0 - 6	09/19/05	61.7	<	0.650	<	0.650	<	0.650	<	0.650	<	0.650		7.600		1.400 Q		9.000
RM-297+90-E10 6 - 12	09/19/05	69.2	<	0.038	<	0.038	<	0.038	<	0.038	<	0.038		0.170	<	0.038	***************************************	0.170
RM-297+90-E25 0 - 6	09/19/05	67.0	<	0.590	<	0.590	<	0.590	<	0.590	<	0.590		6.400		1.200 Q		7.600
RM-297+90-E25 6 - 12	09/19/05	70.8	<	0.038	<	0.038	<	0.038	<	0.038	<	0.038		0.120 Q	<	0.038		0.120 Q
RM-297+90-E50 0 - 6	10/03/05	59.4	<	0.310	<	0.310	<	0.310	<	0.310	<	0.310		2.800		0.630 Q		3.400
RM-298+00-W120 0 - 6	10/03/05	63.6	<	0.130	<	0.130	<	0.130	<	0.130	<	0.130	j	1.400		0.340 Q		1.700
RM-298+90-E100 0 - 6	09/19/05	56.9	<	0.470	<	0.470	<	0.470	<	0.470	<	0.470		6.900		1.400 Q		8.300
RM-298+90-E100 6 - 12	09/19/05	62.0	<	0.043	<	0.043	<	0.043	<	0.043	<	0.043		0.300		0.070 Q		0.370
RM-298+90-E120 0 - 6	10/03/05	54.8	<	0.048	<	0.048	<	0.048	<	0.048	<	0.048		0.360		0.120 Q		0.480
RM-299+90-N15 0 - 6	09/19/05	52.6	<	1.300	<	1.300	<	1.300	<	1.300	<	1,300	}	15.000		2.300 Q	1	17.000
RM-299+90-N15 6 - 12	09/19/05	39.9	<	0.130	<	0.130	<	0.130	<	0.130	<	0.130		2.000		0.370 Q		2.400
RM-299+90-N15 12 - 21	09/19/05	48.3	<	0.220	<	0.220	<	0.220	<	0.220	<	0.220		2.200		0.500 Q		2.700
RM-299+90-N40 0 - 6	10/03/05	46.2	<	0.460	<	0.460	<	0.460	<	0.460	<	0.460		4.100		1.100 Q		5.200
RM-299+90-N40 6 - 12	10/03/05	51.9	<	0.100	<	0.100	<	0.100	<	0.100	<	0.100		0.760		0.170 Q		0.930
RM-299+90-N60 0 - 6	11/14/05	49.9	<	0.160	<	0.160	<	0.160	<	0.160	<	0.160		2.400		0.510 Q		2.900
RM-299+90-S10 0 - 6	09/19/05	60.8	<	1.700	<	1.700	<	1.700	<	1.700	<	1.700	T	13.000		2.900 Q	1	15.000
RM-299+90-S10 6 - 12	09/19/05	57.5	<	1.400	<	1.400	<	1.400	<	1.400	<	1.400		9.700		2.500 Q	1	12.000
RM-299+90-S10 12 - 24	09/19/05	56.7	<	0.047	<	0.047	<	0.047	<	0.047	<	0.047	<	0.047	<	0.047	<	0.047
RM-299+90-S20 0 - 6	09/19/05	59.3	<	1.800	<	1.800	<	1.800	<	1.800	<	1.800		23.000		4.900 Q	2	28.000
RM-299+90-S20 6 - 12	09/19/05	69.2	<	0.077	<	0.077	<	0.077	<	0.077	<	0.077		1.200		0.280		1.400
RM-299+90-S20 12 - 24	09/19/05	63.6	٧	0.042	<	0.042	<	0.042	<	0.042	<	0.042		0.340		0.071 Q		0.420
RM-299+90-S50 0 - 6	10/03/05	71.2	<	0.190	<	0.190	<	0.190	<	0.190	<	0.190		1.800		0.430 Q		2.300
RM-301+00-N10 0 - 6	09/19/05	60.6	<	1.300	<	1.300	<	1.300	<	1.300	<	1.300		13.000		2.300 Q	1	15.000
RM-301+00-N10 6 - 12	09/19/05	66.3	<	0.040	<	0.040	<	0.040	~	0.040	<	0.040		0.220		0.041 Q		0.260
RM-301+00-N10 12 - 27	09/19/05	63.6	<	0.130	<	0.130	<	0.130	<	0.130	<	0.130		1.200		0.320 Q		1.500
RM-301+00-N30 0 - 6	09/19/05	52.8	<	1.500	<	1.500	<	1.500	<	1.500	<	1.500		17.000		2.900 Q	2	20.000
RM-301+00-N30 6 - 12	09/19/05	56.4	<	0.047	<	0.047	<	0.047	<	0.047	<	0.047		0.160 Q	<	0.047		0.160 Q
RM-301+00-N30 12 - 30	09/19/05	44.0	<	0.060	<	0.060	<	0.060	<	0.060	<	0.060		0.300		0.062 Q		0.370
RM-301+00-N60 0 - 6	10/03/05	40.9	<	2.600	<	2.600	<	2.600	<	2.600	<	2,600		34.000		7.700 Q	4	42.000
RM-301+00-N60 6 - 12	10/03/05	44.5	<	0.060	<	0.060	<	0.060	<	0.060	<	0.060		0.078 QB	<	0.060		0.078 Q
RM-301+00-N60 12 - 18	10/03/05	36.5		0.073	<	0.073	<	0.073	<	0.073	<	0.073	<	0.073	<	0.073	<	0.073
RM-301+00-N80 0 - 6	11/14/05	38.0	<	1.000	<	1.000	<	1.000	<	1.000	<	1.000		14.000		3.200 Q	1	17.000
RM-301+00-N80 6 - 12	11/14/05	52.0	<	0.051	<	0.051	<	0.051	<	0.051	<	0.051	<	0.051	<	0.051	<	0.051
RM-301+00-S100 0 - 6	09/19/05	56.3	<	1.900	<	1.900	<	1.900	<	1.900	<	1.900		19.000		3.700 Q	2	23.000
RM-301+00-S100 6 - 12	09/19/05	60.8	<	0.044	<	0.044	<	0.044	<	0.044	<	0.044		0.150	<	0.044		0.150
RM-301+00-S100 12 - 27	09/19/05	56.8	<	0.047	٧	0.047	<	0.047	٧	0.047	<	0.047	<	0.047	<	0.047	<	0.047
RM-301+40-N40 0 - 6	11/14/05	47.4	<	0.560	٧	0.560	<	0.560	٧	0.560	<	0.560		5.900		1.400 Q		7.200
RM-301+40-N40 6 - 12	11/14/05	56.0	<	0.047	<	0.047	<	0.047	٧	0.047	<	0.047		1.700		0.260		1.900
RM-302+20-S10 0 - 6	09/19/05	56.6	<	1.900	٧	1.900	<	1.900	٧	1.900	<	1,900		18.000		4.300 Q	2	22.000
RM-302+20-S10 6 - 12	09/19/05	59.1	<	1.800	٧	1.800	<	1.800	<	1.800	<	1.800		13.000		3.300 Q	1	16.000
RM-302+20-S10 12 - 30	09/19/05	53.6	<	0.050	٧	0.050	<	0.050	٧	0.050	<	0.050		0.170	<	0.050		0.170

Table 5. Overbank Analytical Results Summary HARP OU2/L & OU3

Sample Location and	Sample	Percent							PCB	Arociors	(ma/k	a)					Total PCBs
Depth (Inches)	Date	Solids		1016	Γ	1221	Ι	1232		1242	1	1248		1254	<u> </u>	1260	(mg/kg)
RM-302+20-S185 0 - 6	10/03/05	66.7	<	0.040	<	0.040	<	0.040	<	0.040	<	0.040		0.053 Q	<	0.040	0.053 Q
RM-302+20-S30 0 - 6	09/19/05	64.3	<b>V</b>	2.100	7	2.100	<	2,100	<	2.100	<	2.100		31.000	<u> </u>	6.600 Q	37.000
RM-302+20-S30 6 - 12	09/19/05	73.7	<	0.072	~	0.072	<	0.072	<	0.072	<	0.072	1	0.720		0.160 Q	0.880
RM-302+20-S30 12 - 24	09/19/05	67.8	<	0.039	<	0.039	<	0.039	<	0.039	<	0.039		0.230		0.051 Q	0.280
RM-302+20-S70 0 - 6	09/19/05	58.5	<	2.300	<	2.300	<	2.300	<	2.300	<	2.300		30.000	······	6.200 Q	36.000
RM-302+20-S70 6 - 12	09/19/05	64.8	<	0.041	<	0.041	<	0.041	<	0.041	<	0.041		0.130 Q	<	0.041	0.130 Q
RM-302+20-S70 12 - 24	09/19/05	45.6	<	0.058	<	0.058	<	0.058	<	0.058	<	0.058		0.072 Q	<	0.058	0.072 Q
RM-303+10-N40 0 - 6	11/14/05	53.3	<	1.500	<	1.500	<	1.500	<	1.500	<	1.500		21.000		5.700	26.000
RM-303+10-N40 6 - 12	11/14/05	54.9	<	0.048	<	0.048	<	0.048	<	0.048	<	0.048		0.590		0.110 Q	0.700
RM-303+10-N40 12 - 24	11/14/05	36.4	<	0.073	<	0.073	<	0.073	<	0.073	<	0.073		0.150 Q	<	0.073	0.150 Q
RM-303+30-N10 0 - 6	09/19/05	56.0	<	0.950	<	0.950	<	0.950	<	0.950	<	0.950		7.300		1.300 Q	8.600
RM-303+30-N10 6 - 12	09/19/05	51.3	<	2.100	<	2.100	<	2.100	<	2.100	<	2.100		18.000		5.300 Q	23.000
RM-303+30-N10 12 - 27	09/19/05	52.5	<	0.051	<	0.051	<	0.051	<	0.051	<	0.051		0.210		0.055 Q	0.270
RM-303+30-N25 0 - 6	09/19/05	56.5	<	1.400	<	1.400	<	1,400	<	1.400	<	1.400		12.000		2.100 Q	14.000
RM-303+30-N25 6 - 12	09/19/05	67.0	~	0.120	<	0.120	<	0.120	<	0.120	<	0.120		0.930		0.210 Q	1.100
RM-303+30-N50 0 - 6	09/19/05	53.5	<	0.450	<	0.450	<	0.450	<	0.450	<	0.450		5.000		0.860 Q	5.900
RM-303+30-N50 6 - 12	09/19/05	54.0	<	0.049	<	0.049	<	0.049	<	0.049	<	0.049		0.240		0.061 Q	0.300
RM-303+30-N70 0 - 6	10/03/05	48.6	٧	1.100	<	1.100	<	1.100	<	1.100	<	1.100		9.400		3.100 Q	12.000
RM-303+30-N70 6 - 12	10/03/05	51.0	<	0.052	<	0.052	<	0.052	<	0.052	<	0.052		0.300		0.083 Q	0.380
RM-303+30-N90 0 - 6	11/14/05	45.2	<	0.590	<	0.590	<	0.590	<	0.590	<	0.590		8.400		2.100	11.000
RM-303+30-N90 6 - 12	11/14/05	53.2	<	0.050	<	0.050	<	0.050	<	0.050	<	0.050		0.095 Q	٧	0.050	0.095 Q
RM-303+50-N40 0 - 6	11/14/05	47.3	٧	0.280	<	0.280	<	0.280	<	0.280	<	0.280	<u> </u>	4.600		0.910 Q	5.500
RM-303+50-N40 6 - 12	11/14/05	47.6	٧	0.056	<	0.056	<	0.056	<	0.056	<	0.056	<	0.056	<	0.056	< 0.056
RN-305+90-N10 0 - 6	09/20/05	53.0	<	1.300	<	1.300	<	1.300	<	1,300	<	1.300		18.000	L	3.900 Q	22.000
RN-305+90-N10 6 - 12	09/20/05	57.4	<	0.690	<	0.690	<	0.690	<	0.690	<	0.690		7.300		1.400 Q	8.800
RN-305+90-N10 12 - 30	09/20/05	49.9	<	0.053	<	0.053	<	0.053	<	0.053	<	0.053		0.330		0.075 Q	0.400
RN-305+90-N60 0 - 6	09/20/05	54.2	<	0.980	<	0.980	<	0.980	<	0.980	<	0.980		14.000		2.300 Q	16.000
RN-305+90-N60 6 - 12	09/20/05	54.2	٧	0.049	<	0.049	<	0.049	<	0.049	<	0.049		0.760		0.150 Q	0.910
RN-305+90-N90 0 - 6	10/04/05	55.0	<	0.240	<	0.240	<	0.240	<	0.240	<	0.240		2.600		0.430 Q	3.000
RN-305+90-S10 0 - 6	09/20/05	45.7	<	0.870	<	0.870	<	0.870	<	0.870	<	0.870		13.000		2.400 Q	15.000
RN-305+90-S10 6 - 12	09/20/05	51.1	<	0.052	<	0.052	<	0.052	<	0.052	<	0.052	<u> </u>	0.730		0.160 Q	0.890
RN-305+90-S10 12 - 24	09/20/05	42.6	<	0.062	<	0.062	<	0.062	<	0.062	<	0.062		0.320	<u> </u>	0.075 Q	0.400
RN-305+90-S40 0 - 6	10/04/05	58.8	<	0.140	<	0.140	<	0.140	<	0.140	<	0.140		1.400	<	0.140	1.400
RN-307+60-S10 0 - 6	09/20/05	50.4	<	0.790	<	0.790	<	0.790	<	0.790	<	0.790		5.800		1.400 Q	7.100
RN-307+60-S10 6 - 12	09/20/05	43.3	<	1.500	<	1.500	<_	1.500	<	1.500	<	1,500		10.000		2.100 Q	12.000
RN-307+60-S10 12 - 18	09/20/05	70.0	<	1.100	<	1.100	<	1.100	<	1.100	<	1.100		9.400		2.000 Q	11.000
RN-307+60-S10 18 - 27	09/20/05	76.6	<	0.035	<	0.035	<	0.035	<	0.035	<	0.035		0.340		0.067 Q	0.410
RN-307+60-S50 0 - 6	09/20/05	60.9	٧	0.870	<	0.870	<	0.870	<	0.870	<	0.870		12.000		2.200 Q	15.000
RN-307+60-S50 6 - 12	09/20/05	64.0	<	0.041	<	0.041	<	0.041	<	0.041	<	0.041		0.260		0.049 Q	0.310
RN-307+60-S80 0 - 6	10/04/05	57.6	<	0.460	<	0.460	<	0.460	<	0.460	<	0.460		5.100		0.850 Q	6.000
RN-307+60-S80 6 - 12	10/04/05	57.8	٧	0.046	<	0.046	<	0.046	<	0.046	<	0.046	<	0.046	<	0.046	< 0.046
RN-307+80-S90 0 - 6	11/14/05	43.9	٧	1.200	<	1.200	<	1.200	<	1.200	<	1.200		32.000		4.800	37.000

Table 6. Historic Sediment Analytical Results HARP OU2/L & OU3

Location	Total PCBs (mg/kg)
RE-122+90-IC-RS	3.300
RE-124+00-IC-RS	2.100
RE-126+60-IC	2.100
RF-131+50-OXBOW	6.600
RF-147+50-IC	3,400
RF-150+00-IC	7.700
RF-ST4-IC	2.500
RF-156+20-IC	5.300
RG-172+50-IC	5.200
RG-180+10-IC	2.100
RG-183+00-IC-RS	7.000
RG-191+50-IC-RS	2.000
RG-198+00-IC-RS	2.000
RG-202+50-IC-RS	3.900
RG-205+00-IC-RS	5.800
Ri-220+00-IC	9.700
RI-225+00-IC	6.500
RI-229+00-IC	8.900
RJ-233+00-IC	20.000
RJ-238+60-IC	0.120
RJ-245+00-IC-RS	1.600
RK-254+50-IC-RS	8.000
RK-261+00-IC-RS	0.750
RK-265+50-IC-RS	5.600
RL-270+00-IC-RS	0.070
RL-275+80-IC-RS	0.050
RL-279+00-IC-RS	1.100
RM-285+00-IC-RS	0.090
RM-291+00-IC-RS	4.100
RM-296+90-IC-RS	2.500
RM-302+70-IC-RS	1.500
RN-308+80-IC-RS	3.800
RN-314+90-IC-RS	11.000
RO-320+80-IC-RS	1.300
RO-328+20-IC-RS	8.000
RO-330+20-IC-RS	5.300
RP-331+90-IC-RS	13.000
RP-337+90-IC-RS	4.600

#### Notes:

1) Historic sampling data collected by Earth Tech in 2003.

Table 9. Sample Replicate List and Results HARP OU2/L and OU3

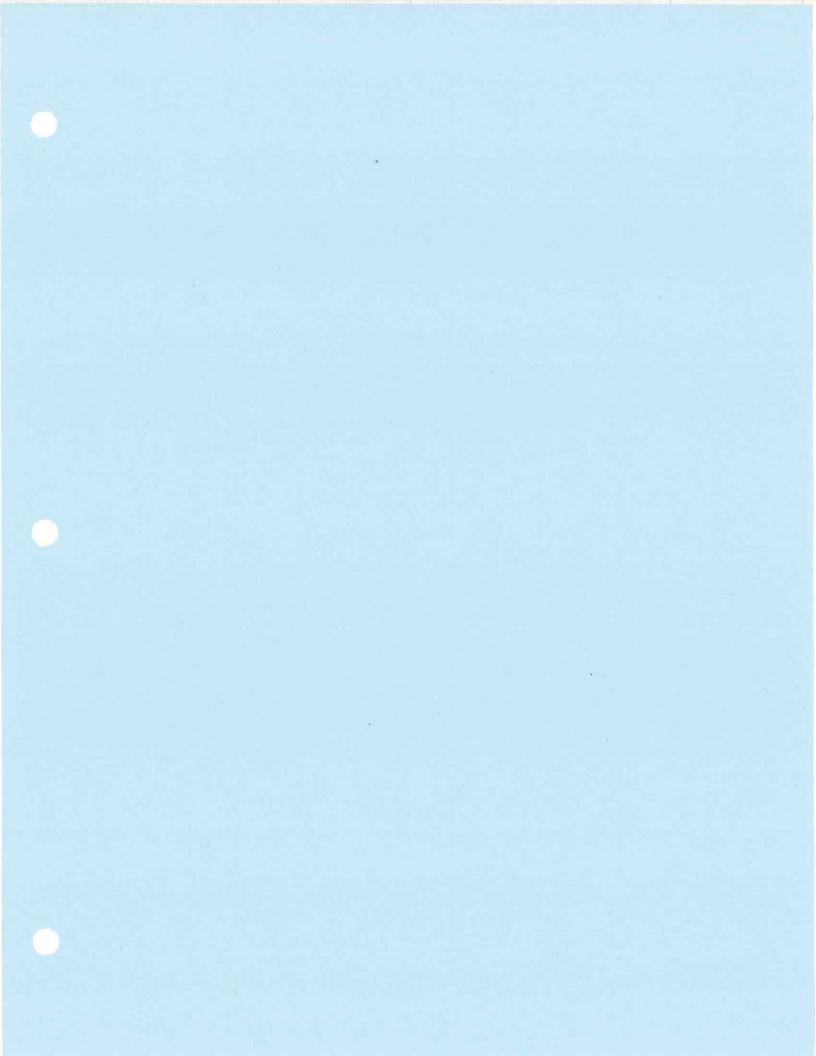
Lab Sample Number	Field ID	Total PCBs (mg/kg)	Collection Date		Relative Percentage Difference <sup>A</sup>
863052-004	RP-331+70-IC 0-12	1.2		SEDIMENT	58%
863052-007	RP-331+70-IC 0-12R	0.66	08/22/05	SEDIMENT	
863052-025	RL-282+00-IC 0-10	1.6	08/23/05	SEDIMENT	69%
863052-026	RL-282+00-IC 0-10R	3.3	08/23/05	SEDIMENT	
863089-011	RJ-237+00-IC 0-10	3.3	08/24/05	SEDIMENT	3%
863089-012	RJ-237+00-IC 0-10R	3.4	08/24/05	SEDIMENT	
863089-021	RG-205+90-IC 0-10	2.3	08/24/05	SEDIMENT	36%
863089-022	RG-205+90-IC 0-10R	3.3	08/24/05	SEDIMENT	
863229-016	RE-125+90-N10 0-6	3.6	08/29/05	SOIL	3%
863229-015	RE-125+90-N10 0-6R	3.7	08/29/05	SOIL	
863273-009	RF-137+80-W10 0-6	29	08/30/05	SOIL	11%
863273-010	RF-137+80-W10 0-6R	26	· · · · · · · · · · · · · · · · · · ·	SOIL	
863335-002	RF-137+80-W40 0-6	20	1	SOIL	58%
863335-004	RF-137+80-W40 0-6R	11		SOIL	
863335-011	RF-140+50-E50 0-6	32		SOIL	44%
863335-013_	RF-140+50-E50 0-6R	50	08/31/05	SOIL	
863384-016	RF-151+00-E30 0-6	30		SOIL	NA
The labor	atory did not receive samp	e RF-REP1-	050901 (although	it was listed on th	
863449-005	RF-170+00-S70 0-6	38	09/02/05	SOIL	53%
863449-004	RF-REP2-050902	22	09/02/05	SOìL	
863503-002	RF-164+80-W170 0-6	12	09/06/05	SOIL	8%
863503-001	RF-REP3-050906	13	09/06/05	SOIL	
863551-004	RG-173+10-W60 0-6	5.3	09/07/05	SOIL	8%
863551-001	RG-REP4-050907	4.9	09/07/05	SOIL	
863606-005	RG-183+20-W10 0-6	5.5	09/08/05	SOIL	31%
863606-001	RG-REP5-050908	7.5	09/08/05	SOIL	
863663-005	RG-191+20-E40 0-6	2.1	09/08/05	SOIL	15%
863663-001	RG-REP6-050909	1.8	09/09/05	SOIL	
863719-009	RH-209+50-W50 0-6	<0.034	09/12/05	SOIL	3%
863719-016	RH-REP7-050912	<0.033	09/12/05	SOIL	
863719-022	RI-218+50-N10 0-6	17	09/12/05	SOIL	34%
863719-027	RI-REP7-050912	12	09/12/05	SOIL	
863790-005	RI-221+60-S25 0-6	1.6	09/13/05	SOIL	36%
863790-002	RI-REP8-050913	2.3	09/13/05	SOIL	
863790-027	RJ-233+00-S10 0-6	40	09/13/05	SOIL	0%
863790-031	RJ-REP8A-050913	40	09/13/05	SOIL	
863888-005	RJ-236+50-N30 0-6	25	09/14/05	SOIL	44%
863888-004	RJ-REP9-050914	16	09/14/05	SOIL	
863951-003	RK-257+00-E10 0-6	18	09/15/05	SOIL	6%
863951-002	RK-REP10-050915	17	09/15/05	SOIL	
864088-012	RL-281+90-S5 0-6	10	09/16/05	SOIL	10%
864088-020	RL-REP11-050916	11	09/16/05	SOIL	
864071-008	RM-289+00-W10 0-6	20	09/19/05	SOIL	114%
864071-002	RM-REP12-050919	5.5	09/19/05	SOIL	

Table 9. Sample Replicate List and Results HARP 0U2/L and 0U3

Lab Sample		Total PCBs			Relative
Number	Field ID	(mg/kg)	Collection Date	Matrix	Percentage Difference <sup>A</sup>
864071-030	RM-299+90-N15 0-6	17	09/19/05	SOIL	6%
864071-029	RM-REP13-050919	16	09/19/05	SOIL	
864153-005	RN-305+90-N60(0-6)	16	09/20/05	SOIL	6%
864153-002	RN-REP14-050920	15	09/20/05	SOIL	
864153-016	RO-318+20-N50(0-6)	44	09/20/05	SOIL	26%
864153-017	RO-REP15-050920	34	09/20/05	SOIL	
864226-003	RO-324+00-S10 0-6	8.4	09/21/05	SOIL	6%
864226-001	RO-REP16-050921	8.9	09/21/05	SOIL	
864343-004	RE-123+90-E30 0-6	1.5	09/26/05	SOIL	7%
864343-001	RE-REP17-050926	1.4	09/26/05	SOIL	
864411-012	RF-REP18-050927	6.6	09/27/05	SOIL	22%
864411-007	RF-WC148+20-S40 0-6	5.3	09/27/05	SOIL	
864411-027	RG-174+00-W60 0-6	13	09/27/05	SOIL	8%
864411-030	RG-REP18-050927	12	09/27/05	SOIL	
864473-009	RG-179+00-E30 0-6	0.53	09/27/05	SOIL	7%
864473-007	RG-REP19-050928	0.57	09/27/05	SOIL	
864535-024	RJ-233+00-N10 0-6	29	09/29/05	SOIL.	4%
864535-021	RJ-REP20-050929	28	09/29/05	SOIL	
864811-011	RL-268+70-E60 0-6	1.5	09/30/05	SOIL	119%
864811-010	RL-REP21-050930	0.38	09/30/05	SOIL	
864648-003	RL-282+50-N40 0-6	0.065Q	10/03/05	SOIL	26%
864648-002	RL-REP22-051003	0.084Q	10/03/05	SOIL	
864714-006	RN-307+60-S80 0-6	6.0	10/04/05	SOIL	26%
864714-011	RN-REP23-051004	4.6	10/04/05	SOIL	
864718-006	RP-338+00-S40 0-6	0.12	10/05/05	SOIL	26%
864718-007	RP-REP24-051005	0.092	10/05/05	SOIL	
866262-014	RF-140+10-E10 0-6	17	11/07/05	SOIL	13%
866262-018	RF-REP25-051107	15	11/07/05	SOIL	
866326-026	RF-145+65-S10 0-6	25	11/08/05	SOIL	8%
866326-025	RF-REP26-051108	23	11/08/05	SOIL	
866326-021	RF-164+50-W10 0-6	86	11/09/05	SOIL	32%
866326-018	RF-REP27-051109	62	11/09/05	SOIL	
866395-004	RF-168+00-W10 0-6	18	11/10/05	SOIL	24%
866395-007	RF-REP28-051110	23	11/10/05	SOIL	
866395-018	RG-180+10-W10 0-6	34	11/10/05	SOIL	19%
866395-019	RG-REP29-051110	28	11/10/05	SOIL	
866444-012	RJ-236+70-N60 0-6	120	11/11/05	SOIL	45%
866444-014	RJ-REP30-051111	76	11/11/05	SOIL	
866510-012	RN-316+00-S10 0-6	17	11/14/05	SOIL	55%
866510-013	RN-REP31-051114	30	11/14/05	SOIL	

#### NOTES

A) The Relative Percentage Difference was calculated by dividing the difference of the two sample concentrations by the average of the two sample concentrations.



#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro		Wastewater 🔲	Waste l Other	~	ement	Ц							
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Facility/Pro	oject	Nam	e			License/	Permit/	Monito	ring Ni	ımber		Boring	Pag Numbe	e 1	of	<u>J</u>
HARP	ŎU2	2/L &	& OU										RM-	285+		
_		•		f crew chief (first, last)	and Firm	Date Dri	lling St	arted		Dat	e Drilli	ng Con	pleted		Drill	ng Method
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T1 C-31	0.1	<del>, ,</del>		stimated: 🔲 ) or Bo	- I acation N	Fe	eet (N	AVD)			6.5 Fe				ir	nches
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I hereby ce	ertify	that	the info	ormation on this form is	true and correct to the	best of my l	nowle	ige.								

Signature Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Eric F. Kovatch

Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Remediation/Redevelopment	_	_	anem 🗀							
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Facility/Project Name HARP OU2/L & OU3	License/I	ermi/i	Monitoring	; Numbei		Boring		er 285+	50-E	30
Boring Drilled By: Name of crew chief (first, last) and Firm	Date Dri	lling St	arted	D	ate Drilli					ng Method
Randy Barnhill Natural Resource Technology, Inc.			/2005			9/16/2	2005			nd auger
WI Unique Well No. DNR Well ID No. Common Well	1		er Level AVD)	_ I	ce Elevat		A XZTON			Diameter nches
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Facility ID County  Calumet	County Co 8		Chilton	1/Cny/ or	Village					
Sample	19	<u>_</u>	CHARGI			Soil	Prope	erties		······································
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Number and Type Length Att. & Recovered (in) Blow Counts Depth In Feet Depth Major Unit		uscs	Graphic Log Well	Diagram	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
0 - 1' SILT : ML, very dark b 7.5YR 3/2), medium plasticity, dilatency, low toughness, dry, ve 0-0.2 root mat; trace roots/fibers sand.  1 - 1.75' ELASTIC SILT : M gray (7.5YR 3/1), medium plasticity, dilatency, low toughness, moist, trace fibers/sand.  1.75' End of Boring.	, rapid ery soft, s/medium  MH, very dark asticity, no , very soft,	MH			0.5					

 Signature
 Firm
 Natural Resource Technology, Inc.
 Tel: (262) 523-9000

 Exic 9. Kouatch
 23713 W Paul Road, Suite D Pewaukee, WI. 53072
 Fax: (262) 523-9001

 Date Modified: 1/6/2006
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#### SOIL BORING LOG INFORMATION

			Ro	ute To:		/astewater	Waste 1	-	ment								
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Facilit	y/Projec	t Nam	ne				License/I	Permit/l	Monitor	ring Nu	ınber		Boring	Pag- Numbe		of ]	<u> </u>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Natural Resource Technology, Inc. Eric F. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ

#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

		Ro	ute To:	Watershed/W	astewater	Waste I	Manage	ement									
				Remediation/F	Redevelopment 🛮	Other											
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Signature Firm Natural Resource Technology, Inc. Tel: (262) 523-9000 Eric P. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ
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State of Wisconsin	
Department of Natural Resources	

#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro	ute To:	Watershed/W	astewater 🗌	Waste I		ment									
					Remediation/I	Redevelopment 🛮	Other											
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Facilit	y/Projec	t Nam	٩		<u></u>		Page 1 of 1    License/Permit/Monitoring Number   Boring Number											
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		Eac	h Major Unit		sc	Graphic Log	Well Diagram		ding Geng	oist	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
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			Γ.	gray (	/.DIK 3/1 );	ist to wet, very so	iaiency,											
			-	[ovti	al trace fiber	s/ stems/ wood nie	eces: 5%											
	[gyttja], trace fibers/ stems/ wood pie sand; organic odor.					2000, 270	OL											
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			<b> </b>	SILI	UL, very of	dark gray (7.5YR v dilatency, low	3/1),											
			-	tough	nasuchy, siov	very soft, trace fib	rc/											
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic 9. Howatch

Firm Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ

State of Wisconsin	
Department of Natural Resources	

#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro	ite To:	Watershed/W	astewater 🗌	Waste N	Manage	men	t [									
					Remediation/I	Redevelopment 🛮	Other												
															Pag	e 1	of		
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			& OU:										RM-287+50-W5						
Boring	g Drilled	l By:	Name o	f crew chi	ief (first, last) ar	Date Dril	Date Drilling Started Date						ng Com	pleted		Drilling Method			
Ran	dy Ba	mhill							_										
Nat	ural Re	esour	ce Tec	hnology		771 It N	F. 16	9/19/			1 7			9/19/2	005	15.	hand auger		
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Facilit					County		County Co		Civil	То	wn/Cit	y/ or V	'illage						
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lber Typ	over	Ŭ×	Depth In Feet		Eac	h Major Unit		CS	phic		l gran		ngt	stur tent	bid it	ticit 'X	90	o/ ome	
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

 Signature
 Firm
 Natural Resource Technology, Inc.
 Tel: (262) 523-9000

 Exic F. Kovatch
 23713 W Paul Road, Suite D Pewaukee, WI. 53072
 Fax: (262) 523-9001

Route To:

Watershed/Wastewater

#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

				Remediation/	Redevelopment 🛛	Other												
	Page 1 of 1  Facility/Project Name License/Permit/Monitoring Number Boring Number															1		
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			& OU			Date Drilling Started   Date Drilling Com								RM-287+50-W30				
				f crew chief (first, last) a	nd Firm	Date Dri	Dat	e Drilli	ng Con	ng Method								
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I hereb	y certi	fy that	the inf	ormation on this form is	true and correct to the	e best of my	knowle	dge.										
Signat		· -			Firm N	Vatural Res	ource	Techn	ology	, Inc.	•••					262) 523-9000		
cr	ic <i>F. F</i>	iovate	n		2	3713 W Paul	Road,	Suite D	Pewa	ukee, '	WI. 530	)72			Fax: (2	262) 523-9001		

Waste Management

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro	ute To:	Watershed/V	Vastewater	Waste	Manage	ement									
					Remediation	Redevelopment 🛛	Other											
														Рае	e 1	of	1	
Facility/P	rojec	t Nam	e			<u>, , , , , , , , , , , , , , , , , , , </u>	Page 1 of 1   License/Permit/Monitoring Number   Boring Number											
HARP							RM-287+50-W5											
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State Pla					2,468,708		L	at	<u> </u>					□ N	í		□ Е	
	1/4	of	1	/4 of Sect	tion ,	T N, R	Lor	ng	٥	<u> </u>			Feet	$\Box$ s		J	Feet W	
Facility II	D				County		County C	ode	Civil To		ty/ or	Village					<del></del>	
			<b>,</b>		Calumet		8	.,	Chilto	on								
Sampl	le												Soil	Prope	rties	,		
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نب أ	eq (	ount	ı Fe		And G	eologic Origin For						ssiv	4>		>		ats	
a Taber	ove	Blow Counts	Depth In Feet		Ea	ch Major Unit		CS	ohic	1 gran	1	npre ngth	stur	pi #	tìcit x	٥	)/ ume	
Number and Type Length Att.	Recovered (in)	Blo	Dep					O S	Graphic Log	Well Diagram		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
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I hereby o	certif	y that	the info	rmation o	on this form is	true and correct to the	best of my	knowle	dge.									

Signature Exic F. Kovatch

Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2 3.GPJ

## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

		<u>Ro</u>	oute To:	Watershed/W	astewater	Waste N	Manage	ement									
				Remediation/l	Redevelopment 🛛	Other											
														Рао	e 1	of	1
Facility/Proje	ect Nan	ıe		CONTROL DE CONTROL DE		License/F	emit/	Monito	ring Nu	ımb	er	I	Boring				
HARP O															289±		
Boring Drille	ed By:	Name o	of crew c	chief (first, last) a	nd Firm	Date Dril	ling St	arted			Date	Drillir	ig Com	pleted		Drill	ng Method
Randy Ba																	
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Facility ID				County	7	County Co		Civil T	own/Ci	ty/	or Vil	lage		~			
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Sample													Soil	Prope	rties		
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic P. Kovatch

Firm Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9001

Fax: (262) 523-9001

Date Modified: 1/6/2006

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Signature

## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

	Rou	ute To:	Watershed/W	astewater	Waste 1	Manage	ment								
			Remediation/	Redevelopment 🛮	Other										
												Pas	ge l	of	1
Facility/Project Name					License/I	emit/l	Monitor	ing Nu	ımber		Boring	Numb	er		
HARP OU2/L &													289+		
Boring Drilled By: Na	ame of	f crew chi	ef (first, last) a	nd Firm	Date Dri	ling St	arted		Da	te Drilli	ng Con	pleted		Drilli	ng Method
Randy Barnhill	Tool	hnology	Ino			10/2	2005			,	10/2/2	1005		1	
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1/4 of	1,	/4 of Secti		T N, R	Long		·	<u> </u>			Feet	□s		F	Feet W
Facility ID			County		County Co		Civil To		ty/ or `	Village					
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Sample											5011	Prope	erties		
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Number and Type Length At Recovered Blow Cou	th.		Eac	ch Major Unit		sc	Graphic Log	Well Diagram		Compress Strength	Moisture Content	Liquid Limit	lasticity ndex	P 200	(D)/
B R L B N	ă					D	Grap Log	Well Diagn		<u>  S</u> #	Σိပိ	<u> </u>	l las	P 2	RC Co
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I hereby certify that th	e info	rmation o	on this form is t	rue and correct to the	hest of my k	nowled	øe.								

Firm Natural Resource Technology, Inc. Eric P. Kovatch 23713 W Paul Road, Suite D Pewaukee, Wl. 53072

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ

Tel: (262) 523-9000

Fax: (262) 523-9001

State of Wisconsin
Department of Natural Resources

Form 4400-122 Rev. 7-98

Ro	watershed/Wastewater  Remediation/Redevelopment	Waste N Other	-	ement [								
										e 1	of .	
Facility/Project Name		License/P	ermit/l	Monitor	ing Nu	mber			Numbe		00 T	100
HARP OU2/L & OU	3 of crew chief (first, last) and Firm	Date Dril	lina St	owtod		IDato	Deillie		XIVI-∠ pleted	290+0		ng Method
· ·	of crew chief (first, fast) and Firm	Date Dill	mig St	arteu		Date	Dillin	ig Com	picicu		ווווועו	ng Menod
Randy Barnhill Natural Resource Tec	chnology. Inc.		9/20/	/2005			Ç	9/20/2	005		har	nd auger
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1/4 of 1 Facility ID	· · · · · · · · · · · · · · · · · · ·	County Cod		Civil To	own/Cit	y/ or Vi	Illage	reet	د با		1	CCI LI W
,	1 '	8		Chilto		•	J					
Sample			·					Soil	Prope	rties		
s ii)	Soil/Rock Description						e ]					
e ed (	And Geologic Origin For				_		ssiv	o.		7		nts
Number and Type Length Att. & Recovered (in) Blow Counts Depth In Feet	Each Major Unit		CS	phic	gran		Compressive Strength	stur	aid it	ticit	9	ome
Number and Type Length Att. Recovered ( Blow Count Depth In Fe			ΩS	Graphic Log	Well Diagram		Compress Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
-0.5 -1.0 -1.5 2.0	0 - 1' SILT: ML, black (10YR 2/1 low plasticity, slow dilatency, low toughness, dry to moist, very soft, 5% roots/fibers to 0.5 ft, trace roots/fibers/medium sand, earthy odor.  1 - 2' ELASTIC SILT: MH, black 10YR 2/1), low to medium plasticity, dilatency, low toughness, dry to moist, trace roots/fibers/shells, earthy odor.  2' End of Boring.	no , soft,	MH				1.5					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic F. Kowatch

Firm Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Fax: (262) 523-9001

Date Modified: 1/6/2006

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## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Page 1 of 1   Page 1 of 1				B	oute To:		Wastewater			_	ment								
Racility ID   County   Calumet   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   O.5 0.5' 1" thick greenish gray clay.						Remediation	ı/Redevelopment ⊠	Ot	her L	_						_	1		•
Boring Drilled By: Name of crew chief (first, last) and Firm  Randy Barnhill  Natural Resource Technology, Inc.  WI Unique Well No.  DNR Well ID No.  Common Well Name  Feet (NAVD)  DNR Well ID No.  Common Well Name  Feet (NAVD)  State Plane  735,231 N, 2,468,694 E S/C/N  Loag  1/4 of 1/4 of Section, T N,R Long  County  Calumet  Soil/Rock Description  And Geologic Origin For Each Major Unit  Sample  36 (1) 1/4 05 (2	Facilit	y/Proje	et Nan	ne				Lice	nse/Pe	ermit/l	Monitor	ring Nu	ımbe	r	Boring		e 1 r	of .	<u> </u>
Randy Barnhill Natural Resource Technology, Inc.    Solit Resource Technology, Inc.   Solit Resource Technol							······································					,					290+		
Natural Resource Technology, Inc.    Natural Resource Technology, Inc.   Surface Elevation   Borchole Diameter   Surface Elevation   Borchole Diameter   Surface Elevation   Borchole Diameter   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Elevation   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Elevation   Borchole Diameter   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Elevation   Surface Elevation   Borchole Diameter   Surface Elevation   Borchole Diameter   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Elevation   Borchole Diameter   Surface Elevation   Borchole Diameter   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Elevation   Borchole Diameter   Surface Elevation   Borchole Diameter   Surface Elevation   Borchole Diameter   Surface Elevation   Borchole Diameter   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Elevation   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Elevation   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Elevation   Surface Elevation   Surface Elevation   Surface Elevation   Surface Elevation   Borchole Diameter   Surface Elevation   Surface Eleva			-		of crew cl	hief (first, last) :	and Firm	Date	e Drilli	ing Sta	arted			Date Drilli	ng Corr	pleted		Drilli	ng Method
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State Plane  735,231 N, 2,468,694 E S/C/N  1/4 of Section , T N,R Long	Local	Grid Oı	igin		estimated:	: 🗆 ) or Bo	nring Location 🔯		Fee									117.	iches
Facility ID    County			J						Lat			<u> </u>		-		□N			□Е
Calumet  Sample  Soil/Rock Description And Geologic Origin For Each Major Unit  Soil Properties  On Julian Jul	Facilit		of				T N, R					· ·		-	Feet	□s		F	eet W
Soil/Rock Description And Geologic Origin For Each Major Unit  O-0.6' ORGANIC SILT: OL, very dark gray (7.5YR 3/1), nonplastic, no dilatency, low toughness, moist, very soft, [gyttja], 5% sand/ shells; trace fibers; crumbly texture; organic odor.  OL  O-0.5' 1" thick greenish gray clay.	raciiii	уш				•		1	y Cou				tyr O	vinage					
0 - 0.6' ORGANIC SILT: OL, very dark gray (7.5YR 3/1), nonplastic, no dilatency, low toughness, moist, very soft, [gyttja], 5% sand/ shells; trace fibers; crumbly texture; organic odor.  OL  OL  OL  OL  OL  OL  OL  OL  OL  O	Sar														Soil	Prope	rties		
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I hereby certify that the information on this form is true and correct to the best of my knowledge.	I bours		6, +b.~+	the in	formatio-	on this form :-	trus and assess to 4.	a bast af	may lee	omta-	<u> </u>	<u> </u>	<u> </u>	<u>.  </u>					

Signature	Firm	Natural Resource Technology, Inc.	Tel: (262) 523-9000
Eric P. Kovatch		23713 W Paul Road, Suite D Pewaukee, WI. 53072	Fax: (262) 523-900

State of Wisconsin	
Department of Natural Resources	

Form 4400-122 Rev. 7-98

		<u>Ro</u>	ute To:	Watershed/W	astewater 🗌	Wast	e Mana	gen	nent								
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Facility/Proje	ct Nam	ie		<del> </del>		Licens	e/Perm	it/M	onitor	ing Nu	ımbe	r	Borin	Numb	er er	ΟI	.1.
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Randy Ba	mhill												_	•			•
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Firm Natural Resource Techno
Eric F. Kovatch

 Natural Resource Technology, Inc.
 Tel: (262) 523-9000

 23713 W Paul Road, Suite D Pewaukee, WI. 53072
 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin	
Department of Natural Resources	

**SOIL BORING LOG INFORMATION** Form 4400-122 Rev. 7-98

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Eric P. Kovatch Date Modified: 1/6/2006

Signature

23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001 Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ

Tel: (262) 523-9000

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Natural Resource Technology, Inc.

## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro	ute To:	Watershed/W	astewater	Waste 1	Manage	ement								
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 Signature
 Firm
 Natural Resource Technology, Inc.
 Tel: (262) 523-9000

 Exic 9. Kovatch
 23713 W Paul Road, Suite D Pewaukee, WI. 53072
 Fax: (262) 523-9001

 Date Modified: 1/6/2006
 Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ

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### SOIL BORING LOG INFORMATION

Form 4400-122

<u>R</u>	toute To: Watershed/Wastewater ☐ Remediation/Redevelopment ☑	Waste M Other	_	ment 🗆							
	Remediation/Redevelopment 🖂	Other						Page	e 1	of	1
Facility/Project Name		License/F	ermit/l	Monitoring N	umb	ег		Numbe	r		
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Signature Finn Eric P. Kovatch

Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ

State of Wisconsin	
Department of Natural Resources	

Form 4400-122 Rev. 7-98

I								Pag	e 1	of	l	
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Eric F. Kovatch

Signature

Natural Resource Technology, Inc. Tel: (262) 523-9000 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ

Firm

### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			<u>Ro</u>	ute To:	Watershed/W	astewater	Waste N	Manage	ment										
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			<u></u>	mottii medii	ing, meaium im toughness	plasticity, no dilate s, moist, soft, trace	ency, fibers			1				ľ					
			-1.5	litean	an toaginiest	, 1110151, 5011, 2200	HOCID.	CL		1									
İ			-							]									
			_							1									
			-2.0	2' En	nd of Boring.					1									
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic P. Kovatch

Firm Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, Wl. 53072

Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ
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## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro	ute To:	Watershed/W	astewater	Waste N	Manage	ment									
					Remediation/I	Redevelopment 🛛	Other											
														Pag	ge 1	of	1	
Facility	-			_			License/F	License/Permit/Monitoring Number Boring Number RM-29								10 LOC TO		
			& OU.		ief (first, last) ar	d Eiro	Doto Deil	Date Drilling Started   Date Dril								Drilling Method		
_	ly Ba	-		i cicw cii	nei (mst, iast) ai	KI I IIII	Date Dill	Date Drilling Started Date Dr						ipicica	Dimi	ing Monou		
Natu	ral R	esour	ce Tec	hnology	y, Inc.			8/23/	2005			8	3/23/2	2005			nd auger	
WI Unique Well No.   DNR Well ID No.   Common Well Name									- 1		e Elevat				Borehole Diameter			
Local (	Sala Os		- (ac	timetadi	[] ) or Dom	ng Location	Fe	et (N.	AVD)		81	4.5 Fe Local G	et (NA	AVD)		inches		
State F		igni			2,468,696		La	t	0	ı 	11	Local	III LOC	Zation N	ſ		□ E	
	1/4	of		/4 of Sect		T N, R	Long	<u> </u>	0		11		Feet			J	Feet W	
Facility	·ID				County		County Co	de	Civil To		ty/ or `	Village			***************************************	E		
~					Calumet		8		Chilto	011		<del></del>	~	_				
Sam													Son	Prope	rties			
	Length Att. & Recovered (in)	nts	ect			ock Description						se					ra	
y be	h Atr ered	Com	In F			ologic Origin For		ß	ic	E E		ressi	ure nt	ļ	sity		nents	
Number and Type	Length Att. Recovered (	Blow Counts	Depth In Feet		Eac	h Major Unit		SC	Graphic Log	Well Diagram		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
Z is	그~	Щ		0 - 0	7' ORCANI	C SILT : OL, v	ery dark	n	9	×Ω		S	≥ Ω	77	집	<u>C.,</u>	<u> </u>	
			_	gray (	7.5YR 3/1),	nonplastic, no di	latency,		==									
				low to	oughness, wet	, very soft, [gyttja	], trace											
					/ stems; 5% s 1 thick gray	hells/sand; organ	nc ogor.		==-									
				0.23	i unck gray	mic sand.		OL				1				•		
			-															
- 1			-0.5															
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										]			ļ					
				0.7 -	0.9' <b>LEAN</b> (	CLAY : CL, gra	ıy (					0.5						
			_	7.5YI mottli	K 6/1 ), 5% g ing medium :	reenish gray (5G) plasticity, no dilat	Y 6/1) encv	CL		ł				ļ				
			-	∖ medit	um toughness	, moist, very soft,	thin [		///									
						ly graded well son												
				to 0.9		een silt and clay,	5% sand											
					End of Boring	<u>.</u>												
											:							
1												-				1		
														1				
												ļ						
I hereb	y certif	fy that	the info	rmation (	on this form is t	rue and correct to the	best of my k	nowle	lge.									

Eric P. Kovatch Date Modified: 1/6/2006

Signature

Fax: (262) 523-9001 23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ

Natural Resource Technology, Inc.

Signature

## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Facility/Project Name														
Eggility/Project Marra										e 1	of	1		
HARP OU2/L & OU3		License/Permit/Monitoring Number Boring Number RM-293+30-N1										10		
		Date Drilling Started Date Drill									Drilling Method			
Randy Barnhill Natural Resource Tecl	ihnology Ing	9/19/2005						\/10/ <del>/</del> 2	005		hand auger			
WI Unique Well No.	DNR Well ID No.   Common Well Name							9/19/2005 levation Bo				orehole Diameter		
Local Grid Origin (est		Fee	t (N	AVD)			7.7 Fe Local G		inches					
	stimated:  ) or Boring Location  ,442 N, 2,468,688 E S/C/N	Lat .		o	·		Local G	ria Loc	ation			ΠE		
	/4 of Section , T N, R	Long		0 1	1			Feet	□ s		I	eet W		
Facility ID	1 -	County Code 8	- 1	Civil To Chilto		y/ or V	'illage							
Sample	Contained							Soil	Prope	rties				
Number and Type Length Att. & Recovered (in) Blow Counts Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit		uscs	Graphic Log	Well Diagram		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments		
-0.5 . -1.0 - -1.5 - -2.0	0 - 1' SILT: ML, dark brown (7.5Y 3/2), nonplastic, rapid dilatency, low toughness, dry to moist, very soft, trace roots/fibers/medium sand, earthy odor.  1 - 2' ELASTIC SILT: MH, very ogray (7.5YR 3/1), low to medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers, fine granular soil texture, earthy odor.  2' End of Boring.	dark	ML				0.5							

Natural Resource Technology, Inc. Tel: (262) 523-9000 Eric I. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001 Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ

Firm

State of Wisconsin
Department of Natural Resources

Form 4400-122 Rev. 7-98

		Ro	ute To: V	Watershed/W	astewater	Waste N	√fanage	ment									
			R	Remediation/	Redevelopment 🛚	Other											
													Рао	e 1	of	1	
Facility/Project	et Nam	e				License/I	ermit/l	Monitor	ing Nu	mber	[]	Boring					
HARP OU			3									[40]					
Boring Drille				(first, last) a	nd Firm	Date Drilling Started Date Dri						Drilling Completed				ng Method	
Randy Ba	mhill																
Natural R	esour	ce Tec						2005				10/3/2	2005		hand auger		
WI Unique Well No. DNR Well ID No. Common Well Nan						1					e Elevat			Во	Borehole Diameter		
		ļ F€	et (N	AVD)			.0 Fee				inches						
Local Grid Or	igin				ing Location 🖂	La	t	0	1	**	Local G	ind Loc				_	
State Plane			,471 N, 2			1		0	<del></del>	11		F			,	□ E	
1/4 Facility ID	of	1	/4 of Section	n , unty	T N, R	Long County Co		Civil To	own/Ci	ty/ or V	Jillage	reet	□s			Feet W	
racinty ID				alumet		8	uc	Chilto		ty/ O1 1	v illage						
Campla			Ca	mumet		10		Cinic	<i>)</i> 11	Ī	T	Soil	Prope	ertiec			
Sample												5011	Trope	Aucs			
Number and Type Length Att. & Recovered (in)	ste	eet			ock Description						ve ve						
red Att	mo	In F			eologic Origin For		S	္	E		essi	it e	١.	ity		ents	
Number and Type Length Att. Recovered (	Blow Counts	Depth In Feet		Eac	ch Major Unit		sc	Graphic Log	Well Diagram		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
Re Les	Bic	De					Þ	ರ ೭	ĭ Ž Ž	ļ		≱రి	<u> </u>	필	Ъ.	<u>% %</u>	
		-	gravish l	ELASTI brown (10	C <b>SILT</b> : MH, vo OYR 3/2), medium	ery dark n					0.5						
		-	plasticit	y, no dilate	ency, low toughne	SS,											
		-0.5	moist, v	ery soft, tr	ace roots/fibers/ste	ems.				1							
		- 0.5															
		-					MH			ł							
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		-1.5	1 7 01	X 30 ( 37 A)	T 1 N 7	. 1		Щ			١					!	
		-	1.5 - 2'	LEAN C	LAY: CL, green am plasticity, no d	ush gray					0.5						
		_	medium	toughnes	s, moist, very soft,	matericy,	CL		1								
		<b>+</b>	homoge		3, 1110101, 1017 1011,				1								
		-2.0		of Boring.					1								
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic 9. Kovatch

Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ
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State of Wisconsin
Department of Natural Resources

Form 4400-122 Rev. 7-98

Randy Barnhill	g Method
Facility/Project Name HARP OU2/L & OU3 Boring Drilled By: Name of crew chief (first, last) and Firm Randy Barnhill  License/Permit/Monitoring Number RM-293+30-S1 Date Drilling Started Date Drilling Completed Drilling Completed Drilling Completed	g Method  l auger iameter
Boring Drilled By: Name of crew chief (first, last) and Firm  Randy Barnhill  Date Drilling Started  Date Drilling Completed  Drilling Completed	g Method  l auger iameter
Randy Barnhill	l auger lameter
Namy bannan	iameter
Natural Resource Technology, Inc. 9/19/2005 9/19/2005 hand	
WI Unique Well No.   DNR Well ID No.   Common Well Name   Final Static Water Level   Surface Elevation   Borehole Discrete Change   Surface Elevation   Borehole Discrete Change   Surface Elevation   Borehole Discrete Change   Surface Elevation   Borehole Discrete Change   Surface Elevation   Surface Elevation   Borehole Discrete Change   Surface Elevation   Surfac	nes
Local Grid Origin (estimated: ) or Boring Location M	
State Plane 735,408 N, 2,468,706 E S/C/N Lat N	□E
	et 🗌 W
Facility ID County Code Civil Town/City/ or Village Calumet 8 Chilton	
Sample Soil Properties	
ತ್ರು E g Soil/Rock Description	
And Geologic Origin For	ants
Number and Type Length Att. & Recovered (in) Blow Counts Blow Counts Blow Counts Blow Counts Compressive Compressive Strength Moisture Compressive Content Liquid Limit Plasticity Index P200	RQD/ Comments
	<u> </u>
0 - 1' SILT: ML, very dark grayish brown (10YR 3/2), nonplastic, rapid	
dilatency, low toughness, moist, very soft,	
roots/fibers/medium sand, earthy odor.	
1.0 1-2' ELASTIC SILT: MH, very dark 0.5	
grayish brown (10YR 3/2), low plasticity,	
no dilatency, low toughness, moist, very soft, trace roots/fibers/stems, fine granular soil	
tructure, earthy odor.	
2' End of Boring.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic 9. Kovatch

Firm Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Fax: (262) 523-9001

Date Modified: 1/6/2006

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State of Wisconsin	
Department of Natural Resources	

Form 4400-122

Ro	oute To: Watershed/Wastewater ☐  Remediation/Redevelopment ☒	Waste Man	ager	nent [									
	·								Pag	e 1	of .	Į	
Facility/Project Name		License/Pern	nit/N	lonitor	ing Nu	unber	]	Boring	Numbe	r			
HARP OU2/L & OU	of crew chief (first, last) and Firm	Date Drilling Started Date Drill								293+.	30-S30 Drilling Method		
Randy Barnhill	or over the thing has y and I him	Date Briting Garter							prono				
Natural Resource Te		1		2005				9/19/2	005		hand auger		
WI Unique Well No.	DNR Well ID No.   Common Well Name	Final Static V Feet			1		e Elevat 6.1 Fe		(TVI)	Bor	rehole Diameter inches		
Local Grid Origin (e	estimated: 🗍 ) or Boring Location 🛛		(142			. 01	Local G					iones	
	5,383 N, 2,468,718 E S/C/N	Lat		·	<u>'</u>	<u>-</u>			□и			□Е	
1/4 of Facility ID	1/4 of Section , T N, R County C	Long County Code			wn/Ci		Village	Feet	□ s		F	eet W	
racility ID	1 -	8	- 1	Chilto		iyi Oi	vinage						
Sample								Soil	Prope	rties			
in) & set	Soil/Rock Description						ę						
Pe Att.	And Geologic Origin For		,	c	E		essir	ıre ıt		ity		ents	
Number and Type Length Att. & Recovered (in) Blpw Counts Depth In Feet	Each Major Unit	7	٥	Graphic Log	Well Diagram		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
Z E Z Z E Z	0 - 1.5' ELASTIC SILT: MH, ver		_	ت ق TTT	M Ω		0.5	Σర	<u> </u>	昆耳	Ь	<u>జీర</u>	
-0.5 -1.0 -1.5 -2.0 -2.5	grayish brown (10YR 3/2), low to me plasticity, no dilatency, low toughness moist, very soft, 5% stems/fibers to 1 trace roots/shells/medium sand, earthy brown (2.5Y 5/2), 10% yellowish red4/6) mottling, medium plasticity, no dilatency, medium toughness, moist, v soft, mottling is vertical and appears to associated with root casts.	edium ft, rodor. M ish d (5YR	11H			CONTRACT CON							

I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature Firm Natural Resource Technology, Inc. Tel: (262) 523-9000 Eric P. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GP
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State of Wisconsin	
Department of Natural Resources	

Form 4400-122 Rev. 7-98

Randy Barnhill Natural Resource Technology, Inc.  WI Unique Well No.  DNR Well ID No.  Common Well Name Final Static Water Level Feet (NAVD)  O.0 Feet (NAVD)  Inches  Local Grid Origin State Plane 735,384 N, 2,468,620 E S/C/N  I/4 of 1/4 of Section , T N, R Long  County Calumet  Soil/Rock Description And Geologic Origin For Each Major Unit  Soil/Rock Description And Geologic Origin For Each Major Unit  Soil/Rock Description And Geologic Origin For Each Major Unit  O - 1' ELASTIC SILT: MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness,	Waste Management	
Facility/Project Name   License/Permit/Monitoring Number   RM-294+20-S10	☑ Other □	
Facility/Project Name   License/Permit/Monitoring Number   RM-294+20-S10		Page 1 of 1
Boring Drilled By: Name of crew chief (first, last) and Firm  Randy Barnhill  Natural Resource Technology, Inc.  WI Unique Well No.  DNR Well ID No.  Common Well Name  Final Static Water Level Feet (NAVD)  O.0 Feet (NAVD)  State Plane  735,384 N, 2,468,620 E S/C/N  1/4 of 1/4 of Section , T N, R Long  County  County  Calumet  Soil/Rock Description  And Geologic Origin For Each Major Unit  Sample  Soil/Rock Description  And Geologic Origin For Each Major Unit  Sample  O-1' ELASTIC SILT: MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness,	License/Permit/Monitoring Number B	ring Number
Randy Barnhill Natural Resource Technology, Inc.  WI Unique Well No.  DNR Well ID No.  Common Well Name Final Static Water Level Feet (NAVD)  O.0 Feet (NAVD)  Inches  Local Grid Origin State Plane 735,384 N, 2,468,620 E S/C/N  I/4 of 1/4 of Section , T N, R Long  County Calumet  Soil/Rock Description And Geologic Origin For Each Major Unit  Soil/Rock Description And Geologic Origin For Each Major Unit  Soil/Rock Description And Geologic Origin For Each Major Unit  O - 1' ELASTIC SILT: MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness,		
Natural Resource Technology, Inc.    Natural Resource Technology, Inc.   10/3/2005   10/3/2005   hand augment of the properties	Date Drilling Started Date Drilling	Completed Drilling Method
WI Unique Well No.   DNR Well ID No.   Common Well Name   Final Static Water Level   Surface Elevation   Borchole Diameter   Feet (NAVD)   O.0 Feet (NAVD)   inches	10/3/2005	/3/2005 band auger
Feet (NAVD)   O.0 Feet (NAVD)   inches		
Local Grid Origin   Gestimated:   Or Boring Location   State Plane   735,384 N, 2,468,620 E S/C/N   Lat   Origin   State Plane   735,384 N, 2,468,620 E S/C/N   Lat   Origin	l I	i
The county   The	Local Gri	
Facility ID    County		
Calumet  Sample  Soil/Rock Description  And Geologic Origin For Each Major Unit  Diagram  Figure 1. Feet Model  Blow Conuts  Soil/Rock Description  And Geologic Origin For Each Major Unit  Diagram  O - 1' ELASTIC SILT: MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness,	Long	Feet S Feet W
Sample  Soil/Rock Description  And Geologic Origin For Each Major Unit  Diagram  O - 1' ELASTIC SILT: MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness,  Soil Properties  Soil Properties  Soil Properties  O - 1' ELASTIC SILT: MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness,		
Number and Type and T		Soil Properties
- 0 - 1' ELASTIC SILT: MH, very dark - grayish brown (10YR 3/2), medium - plasticity, no dilatency, low toughness,		
- 0 - 1' ELASTIC SILT: MH, very dark - grayish brown (10YR 3/2), medium - plasticity, no dilatency, low toughness,	sive	ts t
- 0 - 1' ELASTIC SILT: MH, very dark - grayish brown (10YR 3/2), medium - plasticity, no dilatency, low toughness,	C S C S Inhic Inhic Inhic	icity r in id
- 0 - 1' ELASTIC SILT: MH, very dark - grayish brown (10YR 3/2), medium - plasticity, no dilatency, low toughness,	U S. Com Well	Committee Country (1984)
plasticity, no dilatency, low toughness,	very dark 0.5	
	iness.	
moist, very soft, trace roots/fibers; fine  MH  MH	e fine	
granular soil texture.		
1 - 2.25' LEAN CLAY : CL, very dark 0.5	very dark 0.5	
gray (10YR 3/1), medium plasticity, no dilatency, medium toughness, moist, very	city, no	
soft, homogenous.		
	CL	
1.75' grayish brown ( 2.5Y 5/2 ).		
2.25' End of Boring.		
Z.23 End of Boring.		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic 9. Kovatch

Firm Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9001

Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ
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# SOIL BORING LOG INFORMATION

Rev. 7-98 Form 4400-122

	Ro	ute To:	Watershed/V	Wastewater	Waste I	Manage	ement	t 🗆	)							
			Remediation	/Redevelopment 🛮	Other											
													Рад	e 1	of	1
Facility/Project Na	me				License/I	ennit/	Moni	toring	g Nu	mber	]	Boring	Numbe	r		
HARP OU2/L		3										]	RM-2	294+	20-S	30
Boring Drilled By:	Name o	f crew ch	nief (first, last)	and Firm	Date Dri	ling St	tarted			Dat	e Drillii	ng Com	pleted		Drilli	ng Method
Randy Barnhi Natural Resou		hnology	v Inc			10/3	/200	15				10/3/2	005		hai	nd auger
WI Unique Well N			Vell ID No.	Common Well Name	Final Sta				19	urface	Elevat			Bo		Diameter Diameter
•					Fe	et (N	AVI	D)		0.	0 Feet	t (NA	VD)		ir	nches
Local Grid Origin				ring Location 🛛	<u> </u>		0	,		,, ]	Local G	rid Lo	ation			· · · · · · · · · · · · · · · · · · ·
State Plane	735	,361 N,	, 2,468,622	E S/C/N	La			·					$\square$ N			□ E
1/4 of	1	/4 of Sec		T N, R	Long							Feet	□ s		I	Feet W
Facility ID		L.	County		County Co	de	I			y/ or V	'illage					
			Calumet		8	<u> </u>	Chi	lton	<u> </u>		T	a 4	D.			
Sample							ŀ					Soil	Prope	rties		
(ii) &	gt			Rock Description							9					
our red red	n Fe		And G	eologic Origin For		S			Е		essi h	5 T		Þ.		ents
Number and Type Length Att. & Recovered (in) Blow Counts	Depth In Feet		Ea	ich Major Unit		ပ	Graphic	-s =	wen Diagram		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	200	RQD/ Comments
Rec Blo	Det					n S	E	Vell Well	w c		[S %	ÇΩ Co	Liquid Limit	Plastic Index	P 2	25
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I hereby certify the Signature		ormation	on this form is	s true and correct to the	best of my l			hnol	logy	, Inc.	1				Tel: (2	262) 523-9000

23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ Date Modified: 1/6/2006 This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may

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Signature

Eric P. Kovatch

## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro	ute To:	Watershed/W	astewater	Waste l	Manage	ement									
					Remediation/I	Redevelopment 🛮	Other											
															Pag	e 1	of	1
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Firm Natural Resource Technology, Inc. Tel: (262) 523-9000 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778 HARPOU2\_3.GPJ
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## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

		Ro	ute To:	Watershed/W	astewater	Waste I	-	ement								
				Remediation/	Redevelopment 🛮	Other										
													Pag	-	of	1
Facility/Project			,			License/I	Permit/i	Monito	ring N	umb	er	Boring	Numb RM-		50 E	20
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Facility ID				County		County Co	- 1			ity/ c	or Villa	je				
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Sample											-	501	Propo	erties		
Number and Type Length Att. & Recovered (in)	nts	eet			ock Description						e.					10
er ype h Att	Con	In F			eologic Origin For		S	္ခ	g		ressi	fi li t		city		nent
Number and Type Length Att. Recovered (	Blow Counts	Depth In Feet		Eac	ch Major Unit		sc	Graphic Log	Well Diagram	b	Compressive	Strength Moisture Content	Liquid	Plasticity Index	P 200	RQD/ Comments
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		-  -	brow	n (10YR 3/2	), slow dilatency,	low	ML									
	very soft, root mat		IVIL													
	0.2 ft, trace roots/fibers, earthy odo 0.5 - 2' <b>ELASTIC SILT</b> : MH,												1			
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I hereby certif	v that	the info	ormation	on this form is	true and correct to the	best of my k	nowle	dge.	<del>-1</del>	L		I		1	1	1

Eric P. Kovatch

Date Modified: 1/6/2006

Signature

23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ

Tel: (262) 523-9000

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Firm Natural Resource Technology, Inc.

State of Wisconsin
Department of Natural Resources

Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Redevelopment 🕅 Other 🗀

				remediation	redevelopment 23	Other								Pag	e 1	of .	
	/Projec					License/F	ermit/I	Moni	tori	ng Nu	mber		Boring	Numbe	r		
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_	dy Ba		Name o.	i crew cinei (ilist, iast) a	A (*11)11	Date Din	ing on	arted			Date		ng Con	фісіса			ng Memod
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				2.25' End of Bori	ng.												
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm Natural Resource Technology, Inc. Tel: (262) 523-9000 Eric P. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ

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State of Wisconsin	
Department of Natural Resources	

Form 4400-122 Rev. 7-98

			Ro	ute To:	Watershed/W	astewater	Waste N	Manage	ment									
					Remediation/I	Redevelopment 🛮	Other											
														Pag	e 1	of 1		
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3,GPJ

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro	ute To:	Watershed/W	astewater	Waste I	Manage	ement								
					Remediation/I	Redevelopment 🛚	Other										
														Pag	e 1	of	1
Facility/Pr	oiect	Nam	e		,		License/I	Permit/	Monitor	ing Nu	nnbei	· 1	Boring			O1	<u> </u>
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Sample	e						. I						Soil	Prope	rties		
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Number and Type Length Att.	Recovered (in)	Blow Counts	Depth In Feet		Eac	ii Major Ollit		SC	Graphic Log	Well Diagram		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	200	RQD/ Comments
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Signature Firm Natural Resource Technology, Inc. Tel: (262) 523-9000 Eric F. Kovatch 23713 W Paul Road, Suite D Pewaukee, Wl. 53072 Fax: (262) 523-9001

State of Wisconsin	
Department of Natural Resources	

Form 4400-122 Rev. 7-98

<u>Roi</u>	ute To: Watershed/Wastewater ☐  Remediation/Redevelopment ☐	Waste M Other	_	ment L	Ţ							
		Page 1 of 1   License/Permit/Monitoring Number   Boring Number									1	
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	f crew chief (first, last) and Firm	Date Drill	ing St	arted		Date	Drillii	ıg Com		۷) (۲)		ng Method
Randy Barnhill Natural Resource Tech	hnology Inc		10/3/	/2005			1	10/3/2	ሰብና		hai	nd auger
WI Unique Well No.	DNR Well ID No.   Common Well Name	Final Stat	ic Wat	er Level	S	Surface	Elevat	ion		Вот	rehole I	Diameter
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1/4 of 1/4 Facility ID	/4 of Section , T N, R	Long County Cod		Civil Tov	vn/Cit	"   v/ or V	illage	Feet	□s		I	Feet W
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Sample								Soil	Prope	rties		
t. & It. Market Ints	Soil/Rock Description						ive					ro.
Number and Type Length Att. & Recovered (ii Blow Counts	And Geologic Origin For Each Major Unit		CS	hic	ram		Compressive Strength	ture ent	id t	icity		/ ment
Number and Type Length Att. & Recovered (in) Blow Counts Depth In Feet	2		OS (	Graphic Log	well Diagram		Compres Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
-0.5 -1.0 -1.5 -2.0	0 - 1.5' SILT: ML, very dark grayis brown (10YR 3/2), low plasticity, sledilatency, low toughness, moist, very strace roots/fibers/medium sand.  1.5 - 2.25' LEAN CLAY: CL, dargrayish brown (2.5Y 4/2), moist, very homogenous.  2.25' End of Boring.	ow soft, k ry soft,	CL				0.5					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

 Signature
 Firm
 Natural Resource Technology, Inc.
 Tel: (262) 523-9000

 Exic F. Kovatch
 23713 W Paul Road, Suite D Pewaukee, WI. 53072
 Fax: (262) 523-9001

Date Modified: 1/6/2006

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## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

<u>R</u>	oute To: Watershed/Wast		Waste N	_	ment								
	Remediation/Red	ievelopment 🖾	Other L							Pag	e 1	of	ſ
Facility/Project Name			License/P	ermit/N	Monitor	ring Nu	mbe	er I	Boring 1	Numbe	r		• • • • • • • •
HARP OU2/L & OU Boring Drilled By: Name	J3 of crew chief (first, last) and	Firm	Date Drill	ing Sta	arted		Ī	Date Drillin			297+		ng Method
Randy Barnhill				-						-			-
Natural Resource Te WI Unique Well No.		ommon Well Name	Final Stat		2005 er Leve	1	Surf	ace Elevati	9/19/2 ion	005	Bo		nd auger Diameter
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Facility ID	County Calumet		County Cod 8		Civil To Chilto		ty/ o	r Village					
Sample	······································							Soil	Prope	rties			
t. & I (in) nts		C Description						ive					10
Number and Type Length Att. & Recovered (in) Blow Counts		gic Origin For Major Unit		CS	hic	ram		Compressive Strength	ture	ָר פַֿ	icity		η ment
Number and Type Length Att. & Recovered (in Blow Counts Depth In Feet		<b>,</b>		n s (	Graphic Log	Well Diagram		Compres Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
-0.5 -1.6	grayish brown (10Y plasticity, no dilatend moist, very soft, trace sand, earthy odor.	slow dilatency, lo y soft, root mater ers, earthy odor. SILT: MH, ver R 3/2), medium ey, low toughness	ow rial to y dark	ML				0.5			,		
I hereby certify that the in	2' End of Boring.  formation on this form is true	e and correct to the be	est of my k	nowlec	lge.	And the state of t							

Signature Natural Resource Technology, Inc. Tel: (262) 523-9000 Eric F. Kovatch

Exic 9. Kovatch

23713 W Paul Road, Suite D Pewaukee, Wl. 53072

Template: WDNR SBL 1998 - Project: 1778 HARPOU2\_3.GPJ

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State of Wisconsin	
Department of Natural Resources	

Form 44	100-122			Rev.	7-98

		Ro	ute To:	Watershed/W	astewater	Waste N	Manage	ment									
				Remediation/	Redevelopment 🛮	Other											
														Pag	e l	of	1
Facility/Project	t Nam	e				License/F	ermit/l	Monit	oring N	lum	ber		Boring	Numbe	er		
HARP OU																90-E	
<del>-</del>	-		f crew ch	iief (first, last) a	nd Firm	Date Dril	ling St	arted			Date	e Drillii	ng Con	ipleted		Drill	ing Method
Randy Ba	mhill	- T	11	Т			0/10	/2004	=			(	3/1 O /3	ιΛΛΕ		ho	nd anaan
Natural Re WI Unique W				y, Inc. Vell ID No.	Common Well Name	Final Stat	9/19/			ISn	rrface	Elevat	9/19/2	.003	IBo		nd auger Diameter
WI Omque W	ch ivo.		Divit 1	TON ID TO.		1	et (N						et (N <i>A</i>	AVD)			nches
Local Grid Or	igin	☐ (es	timated:	) or Box	ing Location 🛛		·····	0	,				rid Lo				
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Facility ID				County Calumet		County Co	de	Chil		J119/	/ OF V	mage					
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				Soil/R	lock Description												
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Number and Type Length Att. & Recovered (in)	Blow Counts	Depth In Feet		2.44	nager Crite		n s (	Graphic	Well	Jiag		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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		ţ			ghness, dry to mois	st, very	''12										
		-0.5			pers, earthy odor.  TIC SILT: MH	verv		╁┼╁┶┎	Щ			0.5					
					n ( 10YR 3/2 ), lov			Ш					1				
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm Natural Resource Technology, Inc. Tel: (262) 523-9000 Eric P. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ Date Modified: 1/6/2006 This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin	
Department of Natural Resources	

Form 4400-122 Rev. 7-98

Recility-Project Name				Ro	ute To:	Watershed/W	Vastewater	Waste I	Manage	ment								
Facility/Project Name   License/Permit/Monitoring Number   RM-297+90-E50						Remediation	Redevelopment 🛛	Other										
Boring Drilled By: Name of crew chief (first, last) and Firm    Common Well Name   Common   Common Well Name   Common   Common Well Name   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Commo															Pag	e 1	of	l
Boring Drilled By: Name of crew chief (first, last) and Firm   Date Drilling Started   Date Drilling Completed   Drilling Method Randy Barnhill								License/I	ermit/l	Monito	ring Nu	unber					00 B	<i>P</i>
Randy Barnhill Natural Resource Technology, Inc.    Total Static Water Level   Surface Elevation   Borehole Diameter						7.575	1 7'					ITS	. 5 '11'			297+		www.
Natural Resource Technology, Inc.    DNR Well ID No.   Common Well Name   Final Static Water Level   Surface Elevation   Borehole Diameter   Feet (NAVD)   O.0 Feet (NAVD)   inches	_		-		i crew ch	nef (first, last) a	nd Firm	Date Dri	ling St	arted		וכון	ite Drilli	ng Con	ipietea		וווווען	ng Meinoa
WI Unique Well No. DNR Well ID No. Common Well Name Final Static Water Level Feet (NAVD)  Local Grid Origin State Plane 735,565 N, 2,468,418 E S/C/N Lat Sta	Natu	iy Bai ral Re	mmi	ce Tec	hnolog	v Inc			10/3	/2005				10/3/2	005		har	nd anger
Sample   Sample   Soil/Rock Description   Soil/Rock	WI Uni	que W	ell No				Common Well Name	Final Sta			el	Surfac				Во		
State Plane  1/4 of 1/4 of Section , T N, R Lat								Fe	et (N	AVD)	·	(					ir	nches
Sample   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   O.5   Soil/Rock Description   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   O.5   Soil/Rock Description   O.5   Soil/Rock Description   O.5   Soil/Rock Description   O.5   Soil/Rock Description   O.5   Soil/Rock Description   O.5   Soil/Rock Description   O.5   Soil/Rock Description   O.5   Soil/Rock Description   O.5   O			igin					19	f	o	1	Ħ	Local C	irid Lo				
Facility ID    County   Calumet   County   County   County   County   Calumet   Soil   Calumet   Soil   Calumet   Soil   Calumet   Soil   Calumet   Soil   Calumet   Soil   Calumet   Soil   Calumet   Soil   Calumet   Soil   Calumet   Soil   Calumet   Soil   Calumet   Soil   Calumet   Soil   Calumet   Soil   Calumet   Ca	State P		c						-	- <del></del>	,	,1		Foot			т	
Calumet   Sample   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock Description   And Geologic Origin For Each Major Unit   Soil/Rock	Facility		01	i			I N, K		de I	Civil T	own/Ci	ty/ or	Village	reet	шэ		r	eei Li w
Soil/Rock Description And Geologic Origin For Each Major Unit  Soil/Rock Description And Geol						•						•	J					
And Geologic Origin For Each Major Unit  Solve the description of the plasticity of the plasticity, no dilatency, medium toughness, moist, very soft, homogenous.  And Geologic Origin For Each Major Unit  Solve the plasticity of	Sam	ple												Soil	Prope	rties		
0 - 1.5' ELASTIC SILT: MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/stems.  1.5 - 2' LEAN CLAY: CL, greenish gray (10Y 5/1), medium plasticity, no dilatency, medium toughness, moist, very soft, homogenous.		ii) &	S	ts !		Soil/F	Rock Description						l <sub>o</sub>					
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm Natural Resource Technology, Inc. Tel: (262) 523-9000 Eric P. Kovatch 23713 W Paul Road, Suite D Pewaukee, Wl. 53072 Fax: (262) 523-9001

Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ

State of Wisconsin	
Department of Natural Resources	

Form 4400-122 Rev. 7-98

			Ro	ate To:		Wastewater   1/Redevelopment	3	Waste I	_	ement								
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Facility			œ & OU3	3				License/I	ennit/	Monito	ring Nu	mber	ין		Numbe RM-2	я 298+(	W-00	/120
					hief (first, last)	and Firm		Date Dri	ling St	arted		Date	Drillin		pleted			ng Method
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Facility	/ ID				County Calumet			County Co 8	ae	Chilt		ty/ or v	mage					
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

SignatureFirmNatural Resource Technology, Inc.Tel: (262) 523-9000Exic F. Kovatch23713 W Paul Road, Suite D Pewaukee, WI. 53072Fax: (262) 523-9001

Date Modified: 1/6/2006

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## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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				of crew chief (first, last) a	nd Firm	Date Dri	lling St	arted		Dat	e Drilli					ing Method
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Eac	ch Major Unit		uscs	Graphic Log	Well Diagram		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	Victory by 1		-0.5	0 - 0.9' ORGANI gray (7.5YR 3/1) low toughness, mo [gyttja], trace fiber 0.5' 10% sand/ sh gray (5GY 6/1), dilatency, medium soft to soft, trace f shells.	, nonplastic, no di pist to wet, very sor rs/ stems; organic of tells to 0.5'.  CLAY: CL, gre medium plasticity, toughness, moist, ibers/ root casts; <	enish no very	CL									
		fy that	the inf	ormation on this form is		best of my k	mowle	dge.								
Signa	ture		.4		Firm N	atural Res	ource	Techn	ology,	Inc.					Tel: (2	(62) 523-9000

Eric P. Kovatch Date Modified: 1/6/2006

23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001 Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ

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## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro	ute To:		astewater 🗌 Redevelopment 🛛	Waste I Other	_	ment								
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	ique W			hnology DNR V	y, mc. Vell ID No.	Common Well Name	Final Sta		/2005 er Leve	1 1	Surfac	e Elevat	9/19/2 ion	.003	Bo		nd auger Diameter
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			-0.5	7.5YH tough roots/	R 3/1), nonpiness, dry to no fibers/medium		ncy, low or.	MIL						TOTAL PROPERTY OF THE PROPERTY			
I herel	by certi	fy that	the info	ormation	on this form is t	rue and correct to the	best of my l	nowled	lge.								

Firm Signature Natural Resource Technology, Inc. Tel: (262) 523-9000 Eric F. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ

### SOIL BORING LOG INFORMATION

sources Form 4400-122 Rev. 7-98

Kou	watershed/Wastewater ☐  Remediation/Redevelopment ☒	Waste M Other		ment L	LJ							
									Pag	e 1	of	1
Facility/Project Name		License/P	ennit/l	Monitor	ing Nu	unber	[	Boring	Numbe	r		
HARP OU2/L & OU3  Boring Drilled By: Name of	f crew chief (first, last) and Firm	Date Dril	ling St	arted		Da	ite Drilli		RM-2	298+		120 ng Method
Randy Barnhill			Ť						_			
Natural Resource Tech WI Unique Well No.	hnology, Inc.    DNR Well ID No.	Final Stat		2005 er Level	1 I	Surfac	e Elevat	10/3/2	.005	lBo	hai	nd auger Diameter
•		4		AVD)	- 1		0.0 Fee	t (NA		150		nches
	timated:  ) or Boring Location   650 N, 2,468,517 E S/C/N	Lat	t	o	1	Ħ	Local C	rid Loc				
·	/4 of Section , T N, R	Long		0	<u> </u>	+1		Feet	□ N □ S		I	□ E Feet □ W
Facility ID	County	County Co	de	Civil To		ty/ or	Village					
Sample	Calumet	8		Chilto	on		1	Soil	Prope	rties		
	Soil/Rock Description								Тюрс	rues		
e ed (ii & ed (ii ) ounts	And Geologic Origin For				_		ssive	d)		À		nts
Number and Type Length Att. & Recovered (in) Blow Counts Depth In Feet	Each Major Unit		SCS	Graphic Log	Well Diagram		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	90	RQD/ Comments
Nun and Blo Blo Del			n n	g g	We		SE	Ñ Ö	Liquid Limit	Plastic Index	P 200	RQ Co Co
-1.0	0 - 1.25' ELASTIC SILT: MH, v gray (10YR 3/1), low to medium pl no dilatency, low toughness, dry, very 10% roots and fibers. 0.5' trace roots/fibers.  1.25 - 2' LEAN CLAY: CL, dark 10YR 4/1), medium plasticity, no di medium toughness, dry, very soft, homogenous.  2' End of Boring.	asticity, y soft,	MH				0.5					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic F. Kovatch

Firm Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ
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Route To:

Watershed/Wastewater

Remediation/Redevelopment

#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

				·					<del>,,,,</del> ,					ge 1	of	1
-	/Proje		16 & OU3	3		License/F	'ermit/	Monito	ring N	umber		Boring		er 299+	90-N	115
				f crew chief (first, last) a	nd Firm	Date Dril	ling St	arted		D	ate Drilli					ing Method
	dy Ba			1 1 7			040	/ <b>0</b> 005				0/10/0	۰		١,	1
	iral K ique W			hnology, Inc. DNR Well ID No.	Common Well Name	Final Stat		/2005 ter Lev		Surfac	e Elevai	9/19/2 tion	2005	Bo		nd auger Diameter
.,, .		<b>-1.</b> 7 (0	•			4		AVD		8	16.7 Fe	et (N	AVD)			nches
	Grid O	igin		timated: (1) or Box		La	f	٥	ı	н	Local (	irid Lo				
State :	Plane 1/4	of		,738 N, 2,468,343 /4 of Section ,	E S/C/N T N, R	Long		0	,	*1		Feet			ī	Eeet 🗌 W
Facilit		O1		County	1 14, 10	County Co		Civil T	`own/C	ity/ or	l Village	1 001	د لـــا	D	1	CCI [ IV
				Calumet		8		Chilt	on							
San	ple							ļ			-	Soil	Prope	erties		
	t. & I (in)	nts	eet		lock Description						ise.		•			
ype	h At 'ered	Cour	In		eologic Origin For ch Major Unit		S	. <u>2</u>	1 5		ressi	ure nt		city		nents
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Eac	лі мајог Сіпі		usc	Graphic Log	Well	Ď	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
~ 8				0 - 1.75' <b>SILT</b> :	ML, very dark gra	yish		$\overline{\Pi}$		-	100	~ ~				<u> </u>
				brown (10YR 3/2	), slow dilatency, l very soft, root mate	low				ļ						
				0.2 ft, trace roots/i	ibers, earthy odor.	1101 10										
			-0.5 -		yish brown ( 10YR	3/1),										
			-	low plasticity.												
			-1.0				ML									
			- "													
									1							
			-1.5													
												1				
				1.75' End of Bori	ng.				1							
													1			
							1	1								
															-	
I herel	w certi	fu that	the info	ormation on this form is	true and correct to the b	nest of my b	nowle	doe	<u> </u>			I	<u> </u>			<u>F</u>
Signat	ure			Amadon on ans torm is		itural Reso			anlor	y Inc					Tal. C	62) 522 0000
	ic I. I	lovate	h		110	113 W Paul						172			,	(62) 523-9000 (62) 523-9001

Waste Management

Other  $\square$ 

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ Date Modified: 1/6/2006 This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater		_	ment 🗀	]								
Remediation/Redevelopment	Other [	_]										
Facility/Project Name	Page 1 of 1  [License/Permit/Monitoring Number   Boring Number											
HARP OU2/L & OU3		Licenser Crima Workloring : Varioti							299+	90-N	40	
Boring Drilled By: Name of crew chief (first, last) and Firm	Date Dril	Date Drilling Started Date D						pleted	·······	Drilling Method		
Randy Barnhill		10/2	<b>'</b>			10/2/0		1. 1				
Natural Resource Technology, Inc. WI Unique Well No.   DNR Well ID No.   Common Well Name	Final Stat	10/3/2005    Final Static Water Level   Surfac					10/3/2 ion	Bo		nd auger Diameter		
WI Offique Wolf Ito.	l l	1					t (NA)	VD)	150		ches	
Local Grid Origin (estimated: ) or Boring Location	ł	Local G			1							
State Plane 735,760 N, 2,468,355 E S/C/N	Lat			□ N			□Е					
1/4 of         1/4 of Section         T         N, R           Facility ID         County         I	Long County Cod		civil Tov	vn/Cits	" // or \	Village	Feet	□s		ŀ	eet W	
	8	- 1	Chiltor		y, Oi	v mage						
Sample							Soil	Prope	rties	es		
And Geologic Origin For						ssive	0				ıts	
Number and Type  The first Att. Soil/Rock Description  And Geologic Origin For Each Major Unit  Each Major Unit		CS	Graphic Log	gran		Compressive Strength	stur	nid it	Plasticity Index	9	D/ nme	
And Geotogic Origin For and Type  Recovered Blow Cou  Bach Major Unit  Each Major Unit		S O	Gra	Well Diagram		Con	Moisture Content	Liquid Limit	Plastic Index	P 200	RQD/ Comments	
0 - 2.75' ELASTIC SILT: MH, ve grayish brown (10YR 3/2), medium	ery dark					0.5						
plasticity, no dilatency, low toughness	s,											
moist, very soft, trace roots/fibers/med	dium											
sand/stems.				ŀ								
'."												
-1.5		MH										
-2.5												
7 2.7' very dark gray (10YR 3/1), 1 le	ean 🏻 🏗											
clay. 2.75' End of Boring.												
2.75' End of Boring.		1										
I have by contifue that the information on this form is true and correct to the h		<u> </u>	L				<u> </u>	1	L			

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic 9. Hovatch

Firm Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ
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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Redevelopment Other Page Facility/Project Name License/Permit/Monitoring Number Boring Number RM-299+90-N60 HARP OU2/L & OU3 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Completed Date Drilling Started Drilling Method Randy Barnhill Natural Resource Technology, Inc. 11/14/2005 11/14/2005 hand auger Final Static Water Level Borehole Diameter WI Unique Well No. DNR Well ID No. Common Well Name Surface Elevation Feet (NAVD) 0.0 Feet (NAVD) inches (estimated: ) or Boring Location Local Grid Location Local Grid Origin Lat 735,780 N, 2,468,356 E S/C/N State Plane □ E  $\square$  N o Feet S Feet W 1/4 of Section N, R Long 1/4 of Civil Town/City/ or Village Facility ID County County Code Calumet Chilton Soil Properties Sample Length Att. & Recovered (in) Soil/Rock Description Depth In Feet Blow Counts Compressive Length Att. And Geologic Origin For Number and Type Plasticity Diagram Moisture Content OSCS Graphic Liquid Limit Each Major Unit P 200 Well 90 J 0 - 1' ELASTIC SILT: MH, black ( 10YR 2/1), nonplastic, no dilatency, low toughness, moist, soft, 5% root.

MH -0.51 - 2' LEAN CLAY: CL, very dark brown (10YR 2/2), medium plasticity, no dilatency, medium toughness, wet, firm. CL2 - 3' **FAT CLAY** : CH, dark gray (2.5Y 4/1), high plasticity, no dilatency, high toughness, wet, firm. CH -3.03' End of Boring.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Eric F. Kovatch

Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ

State of Wisconsin
Department of Natural Resources

Number and Type

SOIL BORING LOG INFORMATION Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Redevelopment Other Page License/Permit/Monitoring Number Boring Number Facility/Project Name RM-299+90-S10 HARP OU2/L & OU3 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Completed Date Drilling Started Drilling Method Randy Barnhill Natural Resource Technology, Inc. 9/19/2005 9/19/2005 hand auger Final Static Water Level WI Unique Well No. DNR Well ID No. Common Well Name Surface Elevation Borehole Diameter Feet (NAVD) 816.7 Feet (NAVD) inches (estimated: ) or Boring Location Local Grid Location Local Grid Origin Lat State Plane 735,693 N, 2,468,338 E S/C/N □ E Feet S Feet W 1/4 of Section N, R Long 1/4 of Facility ID County County Code Civil Town/City/ or Village Calumet Chilton Sample Soil Properties Length Att. & Recovered (in) Soil/Rock Description Depth In Feet Blow Counts Compressive And Geologic Origin For Strength Diagram Moisture Plasticity USCS Content Graphic Liquid Limit Each Major Unit Well 200 Log 0 - 1' SILT: ML, very dark grayish brown (10YR 3/1), low plasticity, slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, ML -0.5 earthy odor. 0.5 1 - 2' ELASTIC SILT: MH, very dark gray (7.5YR 3/1), medium plasticity, no dilatency, low toughness, moist, very soft,

MH

I hereby certify that the information on this form is true and correct to the best of my knowledge.

trace roots/fibers/shells/fine sand, earthy

-1.5

-2.0

2' End of Boring.

Signature Tel: (262) 523-9000 Natural Resource Technology, Inc. Eric P. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

<u> </u>	Remediation/Redevelopment	Waste M Other [	•	ement L									
		Page 1 of 1											
Facility/Project Name HARP OU2/L & OU3	3	License/Permit/Monitoring Number Boring Number RM-299+90-S20											
	f crew chief (first, last) and Firm	Date Drill	ing St	arted	Date	Drillin			<i></i>	Drilling Method			
Randy Barnhill Natural Resource Tech	hnology. Inc		9/19/	/2005		9/19/2005					hand auger		
WI Unique Well No.	DNR Well ID No.   Common Well Name	Final Stat			Surface	Surface Elevation					Diameter Diameter		
Y-10:10:		Fe	et (N.	AVD)		817.1 Feet (NAVD)  [Local Grid Location]					inches		
	stimated:  ) or Boring Location  ,678 N, 2,468,336 E S/C/N	Lat		0 1							□ Е		
	/4 of Section , T N, R	Long		<u> </u>	н	Feet					Feet □ W		
Facility ID	County	County Coo	ounty Code   Civil Town/City/ or Village										
C-mul-	Calumet	8		Chilton	<u> </u>		0.3	n					
Sample			I			1	2011	Prope	rties		4		
1. & 1. % In the second	Soil/Rock Description					ive					20		
ype Wered Cou	And Geologic Origin For Each Major Unit		S	ıic am		oress gth	ure	-p	city		nent		
Number and Type Length Att. & Recovered (in) Blow Counts Depth In Feet	Eden Major Offic		usc	Graphic Log Well Diagram	1	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments		
-0.5 -1.0 -1.5 -2.0	0 - 2' SILT: ML, very dark grayish brown (10YR 3/1), low plasticity, sledilatency, low toughness, moist, very groot material to 0.3 ft, trace roots/fibers/medium sand, earthy odor 2' End of Boring.	ow soft,	ML										

Firm Natural Resource Technology, Inc. Signature Tel: (262) 523-9000 Eric P. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ

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Signature

Eric F. Kovatch

## SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			<u>Ro</u>	ute 10:	Remediatio		ater ∟1 relopment [2	3	Waste P Other	_	ment	نيا								
•									Page 1 of 1											
Facility/Project Name HARP OU2/L & OU3								License/Permit/Monitoring Number Boring Number RM-299+90-S50												
Boring Drilled By: Name of crew chief (first, last) and Firm							Date Drilling Started Date Dri									Drilling Method				
Randy Barnhill Natural Resource Technology, Inc.									10/3	/2005				10/3/3		hand auger				
WI Unique Well No.   DNR Well ID No.   Common Well Name							ame .	Final Sta				Surfac	10/3/2005 urface Elevation					Borehole Diameter		
								Feet (NAVD)					0.0 Feet (NAVD) Local Grid Location					inches		
Local Grid Origin ☐ (estimated: ☐ ) or Boring Location ☒ State Plane 735,648 N, 2,468,331 E S/C/N								Lat '					Local C	irid Loo	Ī	□ в				
1/4 of 1/4 of Section , T N, R								Long					N Feet ☐ S					Feet W		
Facility I	D				County Calumet			C 8	-	ounty Code Civil Town/City/ or Village Chilton										
Samp	le				Caluffet			0		OII	Soil Properties									
		r <b>o</b>	<sub> </sub>		Soil	/Rock D	escription							43						
, a													ssive	e e		En		nts		
Number and Type	COVE	Blow Counts	Depth In Feet		Е	ach Ma	jor Unit			SCS	Graphic Log	Well Diagram	,	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	200	RQD/ Comments	
ang I	Re E	Bic	De			YO OX			1 1	n	53	<b>8</b> 2 3 3		0.5	ဍိ ပိ	Lig	Pla Ind	P 2	0 % C %	
				grayis plasti moist granu 1.5 - 2.5Y medil homo	.5' ELAST sh brown ( icity, no dila t, very soft, ilar soil text  -2' LEAN ( 4/3 ), medi um toughne ogenous. and of Boring	10YR atency, trace reure.  CLAY um plass, mo	3/2), medi low tough cots/fibers:  : CL, oli asticity, no	ium iness, ; fine ive bro	dry to	MH				0.5						
Lhereby	certif	v that	the info	rmation	on this form i	s true at	nd correct to	the hes	t of my k	nowlea	łoe	, *								

23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001 Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ Date Modified: 1/6/2006 This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Natural Resource Technology, Inc.

Tel: (262) 523-9000

State of Wisconsin	
Department of Natural Resources	

Form 4400-122 Rev. 7-98

	Rou	t <u>e To:</u> Watershe	d/Wastewater 🔲		_	ment 🗌								
		Remediat	ion/Redevelopment 🛛	Other										
											Pag		of .	<u> </u>
Facility/Project Name	OL 12			License/F	ermit/l	Monitoring	g Num	ber	E		Numbe		aa Ni	10
HARP OU2/L & Boring Drilled By: Na		crew chief (first. la	st) and Firm	Date Drilling Started D					Drillin		pleted		Drilling Method	
Randy Barnhill		,	,	Date Brining States							•			·
Natural Resource	Tech					/2005				/19/2	005			nd auger
WI Unique Well No.		DNR Well ID No.	Common Well Name	Final Stat		er Level AVD)	Su		Elevatio .7 Fee		(VIV)	Bo		Diameter iches
Local Grid Origin	l (esti	imated; ) or	Boring Location 🖂	1 1	EL (11.			010.	ocal G	id Loc	ation		11.	iciics
		685 N, 2,468,2		La	t			"			$\square$ N			□Е
1/4 of	1/4	of Section ,	T N, R	Long	<u> </u>	0 1	1000		11	Feet	□ s		I	eet W
Facility ID		County Calumet		County Co 8	de	Civil Town		or Vi	llage					
Sample		Calumet		0	<u> </u>	Cinton		Т		Soil	Prope	erties		
		Q.	oil/Rock Description					f	Т	БОП	11000	THE B		
tt. &	Feet		d Geologic Origin For						sive					tts
ber Type (th A A Voice Co.)	h In		Each Major Unit		CS	phic _	ram		ngth	sture tent	ig .e	hicity	0	)/ imer
Number and Type Length Att. & Recovered (in) Blow Counts	Depth In Feet		- -		nsc	Graphic Log Well	Diag	1	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	-0.5 -1.0 -1.5	brown (10YR dilatency, low soft, root mater	: ML, very dark gra 3/2), nonplastic, slov toughness, dry to mois rial to 0.2 ft, trace dium sand, earthy odo	st, very	ML						Table 1 Table			

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic P. Kouatch

Firm Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

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State of Wisconsin	
Department of Natural Resources	

Form 4400-122 Rev. 7-98

Ī		rshed/Wastewater :diation/Redevelor		Waste N Other	_	ment L									
											Pag		of 1	_	
Facility/Project Name HARP OU2/L & O	113			License/P	ermit/N	<b>Aonitori</b>	ing Nu	mber	)	Boring ]		er 301+	00-N	30	
Boring Drilled By: Name		t, last) and Firm		Date Dril	ling Sta	rted		Date	: Drillir	ng Com				ng Method	
Randy Bamhill Natural Resource To	echnology Inc			9/19/2005					(	9/19/2	005		har	nd auger	
WI Unique Well No.	ı Well Name	Final Static Water Level Surface Eleva					Elevati	ion			rehole I	Diameter			
Local Grid Origin	estimated: ( )	or Boring Locat	ion 🛛	Feet (NAVD)						et (NA	inches				
	5,710 N, 2,46	8,232 E s	/C/N	Lat		0 !					$\square$ N				
1/4 of Facility ID	1/4 of Section County	, T	N, R	Long County Cod	!	Civil To	wn/Cit	ty/ or Vi	illage	Feet	□ s		Feet W		
1 definey 115	Calum	net		8		Chilto									
Sample										Soil	Prope	erties			
tt. & d (in) mts		Soil/Rock Descri And Geologic Or	_						sive					S	
Number and Type Length Att. & Recovered (in) Blow Counts		Each Major U	_		cs	Graphic Log	Well Diagram		Compressive Strength	Moisture Content	it it	Plasticity Index	٥	RQD/ Comments	
Num and ' Recc Blov					SΩ	Grap Log	Wel Diag		Corr Stre	Moisture Content	Liquid Limit	Plastic Index	P 200	Con Con	
-0. -1. -1. -2. -2.	brown (10) dilatency, lo root materia earthy odor.		lastic, slow moist, very	soft,	MI.					ALL MANAGEMENT AND ALL					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Natural Resource Technology, Inc. Eric P. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

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State of Wisconsin	
Department of Natural Resources	

Form 4400-122 Rev. 7-98

Rou	ute To: Watershed/W	astewater	Waste N		ment								
	Remediation/	Redevelopment 🛛	Other										
										Pag	1 م	of	<b>!</b>
Facility/Project Name			License/P	ermit/N	/onitor	ing Nu	ımber		Boring			OI .	
HARP OU2/L & OU3	ł		Dieense 1	License/Permit/Monitoring Number   Boring Number   RM-301+								00-N	60
Boring Drilled By: Name of		nd Firm	Date Drilling Started Date 1					te Drilli			701		ng Method
Randy Barnhill	(,,									•			U
Natural Resource Tecl	hnology. Inc.			10/3/	2005				10/3/2	005		hai	nd auger
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Sample									Soil	Prope	rties		
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The Atlanta		ologic Origin For		S	ic	. 8		F ess	rre rt	<b></b> .	ity		ient
Number and Type Length Att. & Recovered (ir Blow Counts Depth In Feet	Eac	h Major Unit		SC	Graphic Log	Well Diagram	,	du mp	oiste nter	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
D R R L B R				Ď	Grap! Log	W Di		S \( \frac{1}{2} \)	Σိပိ	<u> </u>	P12 Inc	<u>6</u>	<u>გ</u> ე
-0.5 -1.0 -1.5 -2.0	0 - 1.5' <b>ELASTIC</b> grayish brown (10 plasticity, no dilate moist, very soft, transition of the moist, very soft,	DYR 3/2), mediumency, low toughness ace roots/fibers.  LAY: CL, gray the brown (10YR 5, plasticity, no dilater)	(10YR /6) ency,	MH				0.5					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic 9. Kovatch

Firm Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin	
Department of Natural Resources	

Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Other  $\square$ Remediation/Redevelopment Page 1 Facility/Project Name License/Permit/Monitoring Number Boring Number RM-301+00-N80 HARP OU2/L & OU3 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method Randy Barnhill

Local C State F	irid Or			DNR Well ID No.	Common Well Name	1	anc Wa		- 1	Surface				Во			
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm Natural Resource Technology, Inc. Exic P. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

Template: WDNR SBL 1998 - Project: 1778 HARPOU2\_3.GPJ Date Modified: 1/6/2006 This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin Department of Natural Resources

### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

		Ro	<u>ite To:</u>	Watershed/W	astewater	Waste N	_	ement										
				Remediation/l	Redevelopment 🛛	Other												
													Pag	e 1	of	1		
Facility/Project N						License/F	License/Permit/Monitoring Number Boring Number RM-301+0							00.0	100			
HARP OU2/I Boring Drilled By				inf (first last) or	ad Rism	Date Drilling Started   Date					Date Drill			301+		100 ng Method		
Randy Barnh		aine oi	. CIEW CII	nei (msi, iasi) ai	IQ PIIIII	Date Drilling Started Date					ale Dilli	ing Con	ipicicu		Dinning Wicklood			
Natural Reso	Natural Resource Technology, Inc.							9/19/2005					2005		hai	nd auger		
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Facility ID				County		County Co	de			ty/ o	r Village		••••••					
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Sample												Soil	Prope	rties	es			
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rpe Ape		In F			ologic Origin For		ĽΩ	.2	E		ressi	e t	<b></b>	ity		tents		
Number and Type Length Att. & Recovered (in)	MO.	Depth In Feet		Eac	h Major Unit		SC	Graphic Log	Well Diagram		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments		
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	þ	•	3/2 ),	slow dilateno	cy, low toughness,	moist,												
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Eric P. Kovatch

Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ

State of Wisconsin Department of Natural Resources

#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

		Ro	ute To:		/astewater	Waste	_	ement										
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Number and Type Length Att. & Recovered (in)	Blow Counts	Depth In Fect		Eac	ch Major Unit		SCS	Graphic Log	Well Diagram			Strength	Moisture Content	Liquid Limit	Plasticity Index	200	RQD/ Comments	
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I hereby certific	Sy that	the info	rmation (	on this form is	true and correct to the	hest of my	cnowles	dae										

Firm Natural Resource Technology, Inc. Signature Tel: (262) 523-9000 Eric F. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

SOIL BORING LOG INFORMATION State of Wisconsin Department of Natural Resources Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Redevelopment Other Page License/Permit/Monitoring Number Boring Number Facility/Project Name RM-302+20-S10 HARP OU2/L & OU3 Date Drilling Completed Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Drilling Method Randy Barnhill Natural Resource Technology, Inc. 9/19/2005 9/19/2005 hand auger Final Static Water Level WI Unique Well No. DNR Well ID No. Common Well Name Surface Elevation Borehole Diameter Feet (NAVD) 816.8 Feet (NAVD) inches ☐ (estimated: ☐ ) or Boring Location ☒ Local Grid Location Local Grid Origin Lat 735,686 N, 2,468,122 E State Plane S/C/N  $\square$  E  $\square$  N Feet S Feet W 1/4 of Section N, R 1/4 of Long Civil Town/City/ or Village Facility ID County Code County Chilton Calumet Soil Properties Sample Length Att. & Recovered (in) Soil/Rock Description Depth In Feet Blow Counts ength Att. And Geologic Origin For Number and Type Diagram Moisture Plasticity Content Graphic Liquid Limit Each Major Unit USC P 200 Index Well Log 0 - 0.5' **SILT**: ML, dark brown (7.5YR 3/2), slow dilatency, low toughness, moist, ML very soft, root material to 0.2 ft, trace roots/fibers, earthy odor. 0.5 - 2.5' ELASTIC SILT: MH, very 0.5 dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/medium sand, shells, earthy odor. MH 1.5 -2.52.5' End of Boring.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic P. Kovatch

Firm Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Fax: (262) 523-9001

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State o Depart			al Reso	urces						<b>)IL B(</b> rm 4400			.OG I		<b>RMA</b> ′ v. 7-98	IION
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				·8												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

	, ,	
Signature	Firm Natural Resource Technology, Inc.	Tel: (262) 523-9000
Eric P. Kovatch	23713 W Paul Road, Suite D Pewaukee, WI. 53072	Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ
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SOIL BORING LOG INFORMATION State of Wisconsin Department of Natural Resources Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Other  $\square$ Remediation/Redevelopment Page License/Permit/Monitoring Number Boring Number Facility/Project Name RM-302+20-S70 HARP OU2/L & OU3 Date Drilling Completed Drilling Method Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Randy Barnhill Natural Resource Technology, Inc. 9/19/2005 9/19/2005 hand auger DNR Well ID No. WI Unique Well No. Common Well Name Final Static Water Level Surface Elevation Borehole Diameter Feet (NAVD) 816.4 Feet (NAVD) inches ☐ (estimated: ☐ ) or Boring Location ☒ Local Grid Location Local Grid Origin Lat 735,635 N, 2,468,148 E State Plane S/C/N  $\square$  E  $\square$  N Feet D W 1/4 of Section N, R Feet S 1/4 of Long County Code Civil Town/City/ or Village Facility ID County Chilton Calumet Soil Properties Sample Length Att. & Recovered (in) Soil/Rock Description Depth In Feet Blow Counts Compressive Length Att. And Geologic Origin For Number and Type Moisture Content Diagram Plasticity Graphic Liquid Limit Each Major Unit USC P 200 Well **E**0g 0 - 2' SILT: ML, very dark grayish brown (10YR 3/1), low plasticity, slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor. ML-1.0

I hereby certify that the information on this form is true and correct to the best of my knowledge.

2' End of Boring.

 Signature
 Firm Exic P. Kovatch
 Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072
 Tel: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ
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State of Wisconsin	
Denartment of Natural Resources	

		<u>Ro</u>	ute To:	Watershed/W	astewater	Waste I	_	ement										
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Facility/Proje			-			License/I	License/Permit/Monitoring Number  Boring Number  DN 1.202+20									105		
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Natural Resource Technology, Inc. Eric P. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

State of Wisconsin
Department of Natural Resources

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#### SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater Waste Management Remediation/Redevelopment Other Page Facility/Project Name License/Permit/Monitoring Number Boring Number RM-303+10-N40 HARP OU2/L & OU3 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method Randy Barnhill Natural Resource Technology, Inc. 11/14/2005 11/14/2005 hand auger Final Static Water Level WI Unique Well No. DNR Well ID No. Common Well Name Surface Elevation Borehole Diameter 0.0 Feet (NAVD) Feet (NAVD) inches Local Grid Origin ☐ (estimated: ☐ ) or Boring Location ☒ Local Grid Location Lat 735,707 N, 2,468,086 E State Plane S/C/N □ E Feet W Feet S 1/4 of Section N, R Long Civil Town/City/ or Village Facility ID County County Code Calumet Chilton Sample Soil Properties Length Att. & Recovered (in) Soil/Rock Description Compressive Strength Depth In Feet Blow Counts And Geologic Origin For Comments Number and Type Moisture Plasticity Content Graphic Diagram Liquid Limit Each Major Unit SC P 200 Well Log 0 - 4' ELASTIC SILT: MH, very dark brown (10YR 2/2), nonplastic, no dilatency, low toughness, moist, soft, no shells. 1.0 -1.5

ΜH

I hereby certify that the information on this form is true and correct to the best of my knowledge.

4' End of Boring.

Signature Natural Resource Technology, Inc. Eric F. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778 HARPOU2 3.GPJ This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin Department of Natural Resources

#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

	<u>Ro</u>		Wastewater □ n/Redevelopment ⊠	Waste 1 Other		ement										
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Natural Resource Technology, Inc. Tel: (262) 523-9000 Eric I. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ

State of Wisconsin Department of Natural Resources			SOIL BORING LOG I Form 4400-122	NFORMATION Rev. 7-98
Route To:	Watershed/Wastewater	Waste Management		

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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Natural Resource Technology, Inc. Tel: (262) 523-9000 Eric P. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ Date Modified: 1/6/2006 This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin	
Department of Natural Resources	

Form 4400-122 Rev. 7-98

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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic F. Hovatch

Firm Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9001

Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ
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State of Wisconsin
Department of Natural Resources

Rev. 7-98

Route To: Watershed/Wastewater 
Waste Management 
Waste Management

			Remediation	Redevelopment 🛛	Other												
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature
Exic 9. Kovatch

Natural Resource Technology, Inc.
23713 W Paul Road, Suite D Pewaukee, WI. 53072

Tel: (262) 523-9000
Fax: (262) 523-9001

Date Modified: 1/6/2006

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State of Wisconsin	
Denartment of Natural	Resources

#### SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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Signat	ture										hn	വിവയ	Inc					Tel· (?	262) 523-9000		
Eric I. Kovatch						<ul> <li>Natural Resource Technology, Inc.</li> <li>23713 W Paul Road, Suite D Pewaukee, WI. 53072</li> <li>Fax: (262) 523-900</li> <li>Fax: (262) 523-900</li> </ul>								,							

23713 W Paul Road, Suite D Pewaukee, WI. 53072 Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Other Remediation/Redevelopment Page Facility/Project Name License/Permit/Monitoring Number Boring Number RM-303+30-N90 HARP OU2/L & OU3 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method Randy Barnhill Natural Resource Technology, Inc. 11/14/2005 11/14/2005 hand auger WI Unique Well No. DNR Well ID No. Common Well Name Final Static Water Level Surface Elevation Borehole Diameter 0.0 Feet (NAVD) inches Feet (NAVD) Local Grid Origin ☐ (estimated: ☐ ) or Boring Location ☒ Local Grid Location Lat 735,758 N, 2,468,087 E S/C/N □ E  $\square$  N o Feet W 1/4 of Section Feet S N, R Long County Code Civil Town/City/ or Village County Calumet Chilton Soil Properties Soil/Rock Description Blow Counts Depth In Feet Compressive And Geologic Origin For Strength Diagram Moisture Plasticity Graphic Content Liquid Limit Each Major Unit USC P 200 Index Well g

State Plane 1/4 of Facility ID Sample Length Att. & Recovered (in) Number and Type 0 - 3' ELASTIC SILT: MH, very dark brown (10YR 2/2), nonplastic, no dilatency, low toughness, moist, soft, no shells. 1.0 MH .5 -2.5-3.03' End of Boring.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Natural Resource Technology, Inc. Tel: (262) 523-9000 Exic F. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072 Fax: (262) 523-9001

State of Wisconsin	
Denartment of Natural Resources	

Form 4400-122

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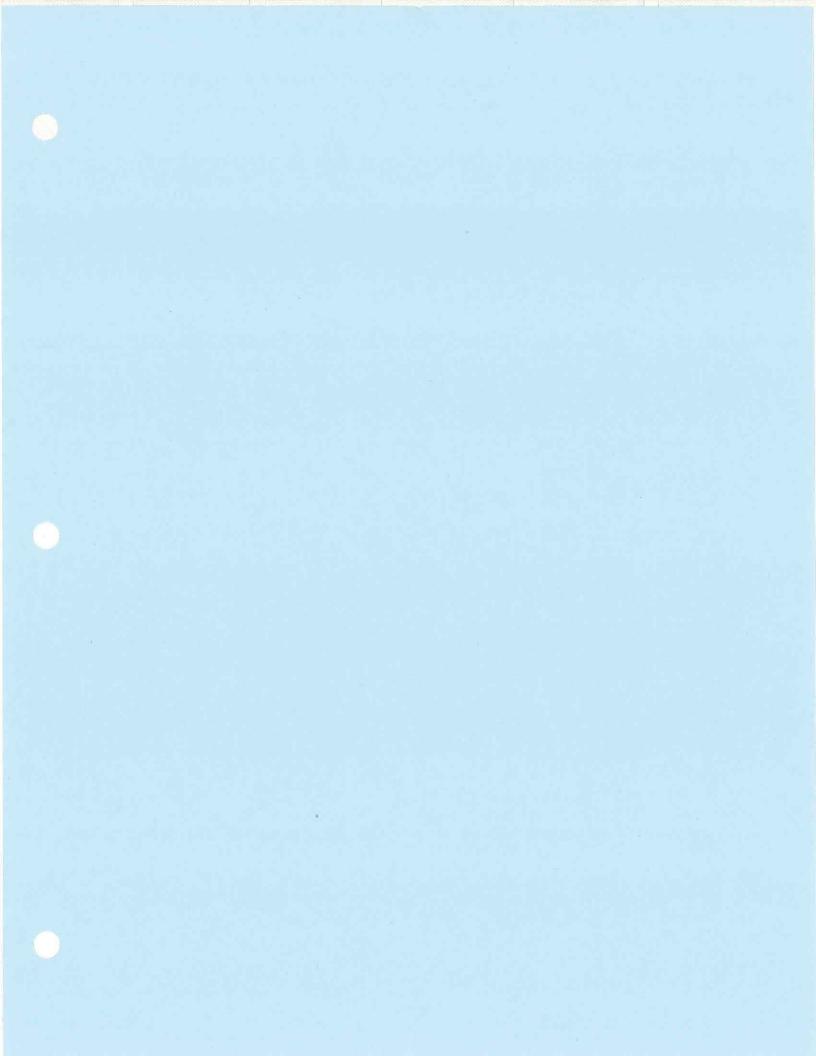
I hereby certify that the information on this form is true and correct to the best of my knowledge.

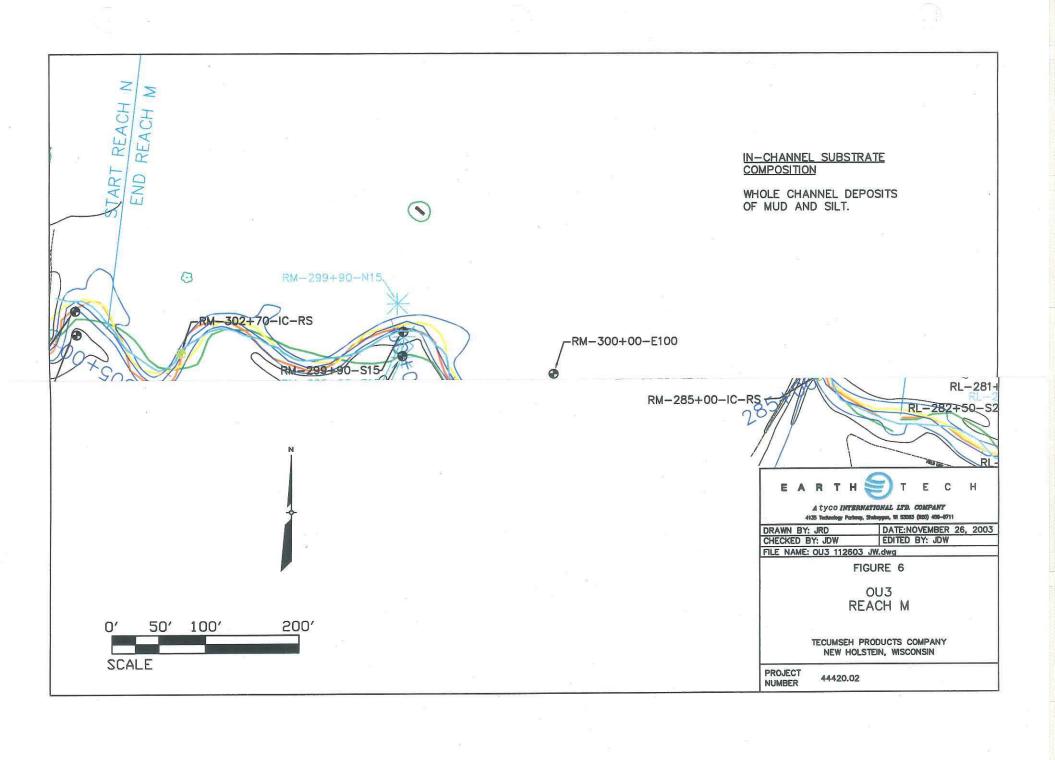
Signature Natural Resource Technology, Inc. Eric P. Kovatch 23713 W Paul Road, Suite D Pewaukee, WI. 53072

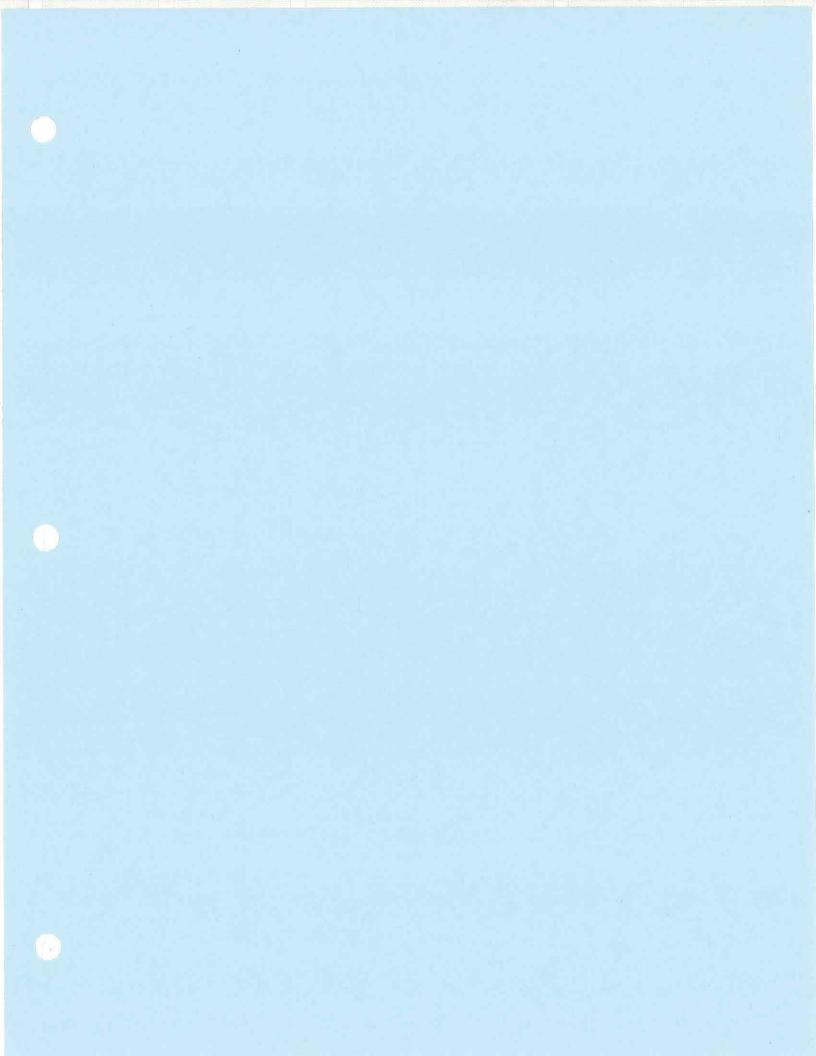
Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778\_HARPOU2\_3.GPJ







Soil Characterization Study, New Holstein, Wisconsin

Sample Location: RM-289+00-W10

Geomorphic Setting: Intermediate terrace

Water Level in Sample Tube Hole: 28 inches below ground surface

**Described By:** David Richardson

Date Described: October 2, 2003

**Soil Sample Collected:** 

Remarks: Purpose of this core is to define the soil type on both sides of the stream for a majority of Reach M

Depth (inches)	Soil Horizon	Description
0-5	A	10YR 2/1 black, silt loam, ML, dry, friable, 10% roots, no mottles, fine granular structure
5-20	A2	10YR 2/1 black, silty clay loam, CL, damp, friable, 2% roots, 5% 5YR 3/3 dark reddish brown mottles, fine granular structure, clay skins on ped faces
20-37	2Ab	10YR 2/1 black, silt loam, ML, moist, friable, 10% roots, 15% 5YR 3/4 dark reddish brown mottles, fine granular structure, no clay skins, few coarse sand and pebbles, buried A horizon
37-	2В	10YR 3/2 very dark grayish brown, silty clay loam, CL, wet, friable, trace roots, 5% 10YR 4/4 dark yellowish brown mottles, medium subangular blocky structure, no clay skins
		End of core at 58 inches in 2B horizon

Soil Characterization Study, New Holstein, Wisconsin

Sample Location: RM-293+30-S10

Geomorphic Setting: Intermediate terrace

Water Level in Sample Tube Hole: 31 inches below ground surface

Described By: David Richardson

Date Described: October 2, 2003

Soil Sample Collected:

Remarks: Determine deposition between channel and circular depression on the inside of a meander bend.

Depth (inches)	Soil Horizon	Description
0-11	Α	10YR2/1 black, silt loam, ML, damp, friable, 10% roots, no mottles, fine subangular blocky structure
11-20	A2	10YR 2/1 black, silt clay loam, CL, moist, friable, 5% roots, 10% 5YR 3/4 dark reddish brown mottles, fine granular structures, clay skins on ped faces
20-24	A3	10YR 2/1 black, silt loam, ML, moist, friable, 5% roots, no mottles, fine granular structure, few coarse sand, shell fragments
24-26	С	10YR 5/3 brown, fine sand, well sorted, SP, wet, loose, no roots, no mottles, water deposited
26-42	2Ab	10YR 2/1 black, silt loam, ML, moist, friable, 2% roots, 5% 5YR3/4 dark reddish brown mottles, medium granular structure, trace shell fragment
42-	2C	10YR 4/2 dark grayish brown, clay loam, CL, damp, firm, trace roots, 10% 10B 6/1 bluish gray mottles, medium angular blocky structure
		End of core at 49 inches in 2C horizon

Soil Characterization Study, New Holstein, Wisconsin

Sample Location: RM-293+30-S30

Geomorphic Setting: Depression on Intermediate terrace

Water Level in Sample Tube Hole: 11 inches below ground surface

Described By: David Richardson

Date Described: October 2, 2003

Soil Sample Collected:

Remarks: Closed depression on intermediate terrace

Depth (inches)	Soil Horizon	Description
0-8	A	10YR 2/1 black, silt loam, ML, damp, friable, 10% roots, no mottles, fine granular structure
8-17	A2	10YR 2/1 black, silt loam, ML, damp, friable, 2% roots, 10% 5YR 3/4 dark reddish brown mottles, fine granular structure, clay skins on ped faces, shell fragments
17-31	A3	10YR 2/1 black, silt loam, ML, moist, friable, 1% roots, 10% 5YR 3/4 dark reddish brown mottles, fine granular structure, common coarse sand
31-	С	10YR 4/1 dark gray, silty clay loam, CL, moist, friable, no roots, 5% 10GY 6/1 greenish gray mottles, medium subangular blocky structure
		End of core at 35 inches in C horizon

Soil Characterization Study, New Holstein, Wisconsin

Sample Location: RM-299+90-N15

Geomorphic Setting: Intermediate terrace

Water Level in Sample Tube Hole: 16 inches below ground surface

Described By: David Richardson

Date Described: October 2, 2003

Soil Sample Collected:

Remarks: Representative location of North and East side of channel in Reach M

Depth (inches)	Soil Horizon	Description
0-10	A	10YR 2/1 black silt loam, ML, damp, friable, 10% roots, no mottles, fine granular structure
10-19	A2	10YR 2/1 black, silty clay loam, CL, damp, friable, 5% roots, 10% 5YR 3/4 dark reddish brown mottles, fine granular structure, clay skins on ped faces
19-43	2Ab	10YR 2/1 black, silt loam, ML, moist, friable, 10% roots, no mottles, fine granular structure, few coarse sand and shell fragments
43-	2C	10YR 5/1 gray, silty clay loam, CL, wet, friable, no roots, 5% 10YR 4/4 dark yellowish brown mottles, medium subangular blocky structure
		End of core at 50 inches in 2C horizon

Soil Characterization Study, New Holstein, Wisconsin

Sample Location: RM-299+90-S15

Geomorphic Setting: Low terrace Potential former channel in 1951 from Aerial Photo Review

Water Level in Sample Tube Hole: 16 inches below ground surface

Described By: David Richardson

Date Described: October 2, 2003

Soil Sample Collected:

**Remarks:** Potential location of 1951 channel. Depth of A3 and 2Ab horizons suggest fill since 1951 although this location was off channel, not part of the channel

Depth (inches)	Soil Horizon	Description
0-10	A	10YR 2/1 black, silt loam, ML, damp, friable, 5% roots, no mottles, fine granular structure
10-14	A2	10YR 2/1 black, silt loam, ML, moist, friable, 2% roots, 10% 5YR 3/4 dark reddish brown mottles, fine granular structure
14-42	A3	10YR 2/1 black, silt loam, ML, damp, friable, trace roots, no mottles, medium subangular blocky structures, non-natural black color mixed with 10YR 2/1 black, shell fragments
42-51	2Ab	10YR 3/2 very dark grayish brown, silt loam, ML, wet, friable, 10% roots, no mottles, medium subangular blocky structure, common coarse sand and shell fragments
51-	2C	10YR 4/1 dark gray, clay loam, CL, damp, firm, trace roots, no mottles, medium subangular blocky structure, trace shell fragments
		End of core at 57 inches in 2C horizon

Soil Characterization Study, New Holstein, Wisconsin

Sample Location: RM-299+90-S25

Geomorphic Setting: Intermediate terrace

Water Level in Sample Tube Hole: 13 inches below ground surface

**Described By:** David Richardson

Date Described: October 2, 2003

Soil Sample Collected:

Remarks: Defines upland side of potential former channel at RM-299+90-S15.

Depth (inches)	Soil Horizon	Description
0-11	A	10YR 2/1 black, silt loam, ML, damp, friable, 5% roots, no mottles, fine granular structure
11-27	A2	10 YR 2/2 very dark brown, silty clay loam, CL, damp, friable, 2% roots, 10% 5YR 3/4 dark reddish brown mottles, fine granular structure, trace shell fragments
27-40	A3	10YR 2/1 black, silt loam, ML, moist, friable, 2% roots, 20% 5YR 3/4 dark reddish brown mottles, fine granular structure, few coarse sand
40-58	2Ab	10YR 4/1 dark gray, silt loam, ML, wet, friable, 15% roots, no mottles, medium subangular blocky structure, potential former muck soil
58-	2C	10YR 5/1 gray, silty clay loam, CL, wet, firm, no roots, no mottles, coarse subangular blocky structure
The state of the s		End of core at 60 inches in 2C horizon





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May 25, 2011

Mr. Jim Baumann Special Assistant to Bureau Director Bureau of Watershed Management Wisconsin Department of Natural Resources 101 S. Webster Street, Box 7921 Madison, WI 53707-7921 Ms. Jean Greensley
U.S. Environmental Protection Agency
Remediation and Reuse Branch
Land and Chemicals Division
77 W. Jackson Boulevard
Chicago, IL 60604-3511

Re: Proposed Overbank Removal Boundaries and PRV Sample Locations Operable Unit 3, Reach I Hayton Area Remediation Project

Dear Mr. Baumann and Ms. Greensley:

Enclosed for your approval are figures and tables showing revised overbank removal boundaries in Reach I of the Hayton Area Remediation Project, Operable Unit 3 (OU3). Eletronic copies of this submittal are also being provided via email to James.Baumann@Wisconsin.gov and Greensley.Jean@epamail.epa.gov.

Figures 1 and 2 show sample results and revised removal boundaries in Reach I. The removal boundaries were determined using the results of additional characterization samples collected in 2011. Table 1 lists all of the Reach I characterization samples analyzed in 2011. Table 2 provides the rationale for the boundaries of each removal zone of Reach I.

Also enclosed for your approval is a list of proposed post-remedial verification samples (PRV) in Reach I. The PRV samples are listed on Table 3, and their locations are shown on Figure 3.

For your reference, I have also enclosed a copy of the Reach I historic sample results presented in the 2006 Lower OU2 & OU3 Technical Memorandum.

TRC requests your review and approval of Reach I separately from Reach J, which may allow us to begin work in Reach I at an earlier date. We would appreciate your comments and approval for Reach I by Wednesday, June 1, 2011.

Mr. J. Baumann and Ms. J. Greensley May 25, 2011 Page 2 of 2

Please contact me at (312) 578-0870, extension 8486, with any questions.

Sincerely,

**OTRC** 

Christopher D. Harvey, PE

Program Manager

Enclosures: Figure 1 - Sample Results and Excavation Boundaries, Reach I (East Bank)

Figure 2 - Sample Results and Excavation Boundaries, Reach I (West Bank)

Figure 3 - Proposed Post-Remedial Verification Sampes, Reach I

Table 1- Characterization Sampling Results 2011, Reach I

Table 2 - Rationale for Removal Boundaries, Reach I

Table 3 - Proposed Post-Remedial Verification Samples, Reach I

Figure - Reach I (from Lower OU2 & OU3 Technical Memorandum, 2006)



Table 1. Proposed Stream Bank PRV Samples - Reach I Hayton Area Remediation Project

07/07/2011

	Length of Streamba	nk Represented			
PRV Sample Name or Removal Zone	(2) 전 전에 博士하게 한국 (전) 그는 그는 그는 그 전 1 회사 회사 (基) (2) 트립스타스 (2) 전 (2) 그는 그 제 (2) 전 (2) (2) (2) (2) (2) (2) (2) (2)		Description		
Right Bank					
II PRVW-IA	217+70	219+30	Inner meander along I201 🥏 / IR		
1203	219+30	21 <del>9+</del> 80	18" removal 4TR		
I1 PRVW-4A	219+80	221+00	Outer meander along I205d		
I205c	221+00	222+30	18" removal		
I206	222+30	223+30	24" removal Poly 17IR		
I206a	223+30	224+85	18" removal		
I2 PRVW-3A	224+85	225+65	Outer meander along 1107, 1207d, 1211b and 1208 /OZR		
I2 PRVW-5A	225+65	226+70	Inner meander along I208 and I209 - // IR		
I2 PRVW-6A	226+70	228+50	Straight section along I209a, I210 and I213 - 13 DR b		
I3 PRVW-1A	228+50	229+70	Straight section along I213 and I215b		
I215a	229+70	230+18	18" removal		
I3 PRVW-3A	230+18	230+90	Inner meander along I215 /BIR6 /7IR		
I3 PRVW-7A	230+90	232+00	Outer meander along I215 and I214 12 Tole 18 TRO		
Left Bank			•		
II PRVW-2A	217+70	219+85	Outer meander along 1101 and 1103a ZZZZA		
I103	219+85	221+00	24" removal QIL		
1104	221+00	221+30	24" removal 37L		
1105	221+30	222+10	21" removal		
I1 PRVW-6A	222+10	223+40	Outer meander along 1105a, 1105c, 1106a and 1106b 5774		
I107b	223+40	223+60	24" removal		
1107	223+60	224+15	24" removal		
12 PRVW-2A	224+15	225+75	Inner meander along I107a and I108 /6 ZL		
I2 PRVW-4A	225+75	226+70	Outer meander along I108 and I106 // IL E/4IL		
I2 PRVW-7A	226+70	228+50	Straight section along I106 / 3 Z L		
I3 PRVW-2A	228+50	229+40	Straight section along 1106 and 1106e STL, 17.7L		
I106d	229+40	229+90	18" removal		
I106g	229+90	230+20	18" removal		
I106h	230+20	230+40	18" removal		
I3 PRVW-4A	230+40	230+90	Outer meander along I106i and I111 191 L		
I3 PRVW-6A	230+90	232+00	Inner meander along I111 and I110 23IL		

I

Table 1. Characterization Sampling Results 2011
Reach I
Hayton Area Remediation Project

	Total PCBs
Sample Name	(mg/kg)
I105 VB-1C 0-6"	4.63
I105 VW-2C 6-12"	2.53
I106 VB-1D 6-12"	17.5
I106 VB-1E 6-12"	12.6
I106 VB-7C 0-6"	7.34
I106 VB-7R 12-18"	0.494
DUP 89	0.165
I106 VB-7R 6-12"	5.48
I106 VB-7S 6-12"	4.6
I106 VW-3D 0-6"	6.3
I106 VW-3E 0-6"	3.35
I106 VW-4D 0-6"	16.2
I106 VW-4E 0-6"	1.98
I106 VW-4F 0-6"	11.8
I106 VW-7D 18-24"	1.4
DUP 80	1.35
I106 VW-7E 6-12"	53.6
I106 VW-7F 6-12"	14.5
I106 VW-7G 6-12"	21.6
I106 VW-7H 12-18"	16.8
I106 VW-7H 6-12"	19.9
I106 VW-7I 6-12"	11.9
I106 VW-7J 6-12"	24.4
I106 VW-7K 6-12"	31.8
I106 VW-7L 12-18"	4.66
I106 VW-7L 6-12"	38.2
I106 VW-7M 12-18"	2.86
I106 VW-7N 6-12"	1.46
I106 VW-7P 6-12"	4.71
I204 VB-3H 0-6"	21.7
I204 VB-3I 0-6"	12.8
I204 VB-3J 0-6"	29
I204 VB-6B 0-6"	5.73
I204 VB-6C 0-6"	8.39
I204 VB-6D 12-18"	1.16
I204 VB-6D 6-12"	23.7

Sample Name	Total PCBs (mg/kg)
I204 VF-6B 18-24" I204 VW-2A 6-12"	3.74 1.34
	5.58
1204 VW-4B 0-6"	
1204 VW-4C 0-6"	0.952
1204 VW-8B 0-6"	11
1204 VW-8C 0-6"	6.58
I204 VW-8D 0-6"	2.56
I205 VB-1A 6-12"	17.3
I205 VB-3B 6-12"	2.38
DUP 83	2.34
I205 VB-3C 6-12"	0.76
1205 VB-3G 0-6"	23.4
DUPLICATE 78	23.1
I205 VW-2B 12-18"	1.38
I205 VW-2B 6-12"	32.6
I207 VB-1A 6-12"	12.7
I207 VB-1E 6-12"	0.378
I207 VB-1G 6-12"	14.6
I207 VB-1H 6-12"	0.462
I207 VB-1K 0-6"	12.6
I207 VB-1L 0-6"	41.1
I207 VB-1L 6-12"	6.67
I207 VB-1M 0-6"	12.7
I207 VB-1N 0-6"	8.88
I207 VF-1G 12-18"	0.103
1207 VW-1C 12-18"	0.0656
I207 VW-1M 6-12"	1.5
I207 VW-1P 0-6"	7.84
1207 VW-1P 0-6"	4.0
I207 VW-1R 0-6"	3.81
I207 VW-2G 0-6"	7.1
I207 VW-2H 0-6"	5.88
I207 VW-2J 0-6"	1.56
I207 VW-3E 6-12"	1.77
I207 VW-3G 0-6"	6.81
I207 VW-3H 0-6"	11.2

Table 1. Characterization Sampling Results 2011
Reach I
Hayton Area Remediation Project

	Total PCBs
Sample Name	(mg/kg)
I207 VW-3J 0-6"	4.16
I207 VW-4F 0-6"	8.46
I207 VW-4G 0-6"	1.15
I207 VW-5F 0-6"	4.26
I209 VB-1B 0-6"	9.03
I209 VB-1B 12-18"	3.48
I209 VB-1C 0-6"	3.63
I209 VB-1C 12-18"	3.43
I209 VB-1D 6-12"	12.8
I209 VB-1E 6-12"	37
I209 VB-1F 6-12"	57.4
I209 VB-1G 6-12"	12.7
I211 VB-2A 6-12"	8.97
I211 VB-2B 6-12"	9.04
I211 VB-3A 0-6"	16
I211 VB-3A 6-12"	9.01
I211 VB-3B 6-12"	2.66
I211 VB-4A 0-6"	9.58
I211 VB-4A 6-12"	22
I211 VB-5A 0-6"	19.6
I211 VW-2C 6-12"	0.457
I211 VW-2D 6-12"	0.275
I215 VB-1B 0-6"	25.4
I215 VB-1B 12-18"	0.0641
I215 VB-1E 0-6"	16.8
I215 VB-1F 12-18"	0.0904
I215 VB-2A 12-18"	15.6
DUP 90	17.1
I215 VB-2A 6-12"	146
I215 VB-2B 12-18"	1.63
I215 VB-2B 6-12"	93.8
I215 VB-2C 6-12"	0.536
I215 VB-3A 6-12"	3.59
I215 VB-4A 6-12"	3.85
DUPLICATE 79	3.4
1215 VF-2A 18-24"	0.0397
I215 VW-1E 12-18"	1.98

# Table 2. Rationale for Removal Boundaries Reach I

# **Hayton Area Remediation Project**

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Removal	U3/23/2011
Zone ID	Rationale
	• Upland boundary established using a location between RI-218+50-S10 0-6" = 13 mg/kg and RI-218+50-S40 0-6" = 4.6 mg/kg.
1101	<ul> <li>Floor established using sample RI-218+50-S10 6-12" = 0.360 mg/kg.</li> <li>Downstream boundary established using the polygon line dividing 2IL from 1ILa, with reference to sample RI-218+50-S10 6-12" = 0.360 mg/kg.</li> </ul>
I102	<ul> <li>Upland boundary established using sample I102 VW-1A 0-6" = 1.2 mg/kg.</li> <li>Lateral boundaries and boundary towards the creek are established using the polygon line between 1ILa and 1ILb with reference to sample RI-218+50-S40 0-6" = 4.6 mg/kg.</li> <li>Floor established using sample RI-218+50-S60 6-12" = &lt;0.04 mg/kg.</li> </ul>
I103	<ul> <li>Upstream boundary established using sample I103 VW-1B 6-12" = 0.44 mg/kg</li> <li>Upland boundary established using the polygon line between 4IL and 2IL with reference to sample RI-221+60-S25</li> <li>Floor established using sample RI-221+00-S10 24-33" = &lt;0.037 mg/kg.</li> </ul>
I103a	<ul> <li>Upstream boundary established using the polygon line dividing 2IL from 1ILa, with reference to sample RI-218+50-S10 6-12" = 0.360 mg/kg.</li> <li>Upland boundary established using the polygon line between 4IL, 1ILa and 2IL with reference to samples RI-221+60-S25 and RI 218+50-S40.</li> <li>Floor established by sample 1103 VW-1C 12-18" = &lt;0.16 mg/kg</li> </ul>
I104	<ul> <li>Upland boundary established using the polygon line between 4IL and 2IL with reference to sample RI-221+60-S25</li> <li>Floor established by sample RI-221+00-S10 24-33 = &lt;0.037 mg/kg.</li> <li>Downstream boundary established by the polygon line between 3IL and 2IL, with reference to sample RI-221+60-S10 21-27" = &lt;0.034 mg/kg.</li> </ul>
I105	<ul> <li>Upstream boundary established by the polygon line between 3IL and 2IL, with reference to sample RI-221+60-S10 21-27" = &lt;0.034 mg/kg.</li> <li>Upland boundary established by the polygon line between 3IL and 4IL, with reference to sample RI-221+60-S25.</li> <li>Downstream boundary established by sample I105 VW-1A 12-18" = 0.38 mg/kg.</li> <li>Floor established by sample RI-221+60-S10 21-27" = &lt;0.034 mg/kg.</li> </ul>
I105a	<ul> <li>Upstream boundary established by sample I105 VW-1A 12-18" = 0.38 mg/kg.</li> <li>Upland boundary established by the upland polygon line boundary of 5IL, and sample I105 VW-1B 6-12" = 0.29 mg/kg.</li> <li>Floor established by sample I105 VW-2A 12-18" = &lt;0.22 mg/kg.</li> <li>Downstream boundary established by I105 VW-2C 6-12" = 2.53 mg/kg.</li> </ul>
I105b	<ul> <li>Upstream boundary is established by the upstream polygon line boundary of 5IL.</li> <li>Boundary towards the creek and the floor of removal are established by sample I105 VW-1B 6-12" = 0.29 mg/kg.</li> <li>Upland boundary is established by I105 VW-1D 0-6" = 1.5 mg/kg.</li> <li>Downstream boundary is established by the downstream polygon line boundary of 5IL.</li> </ul>

# Table 2. Rationale for Removal Boundaries Reach I

# Hayton Area Remediation Project

Removal	
Zone ID	Rationale
I105c	<ul> <li>Upstream boundary established by I105 VW-2C 6-12" = 2.53 mg/kg.</li> <li>Upland boundary established by the polygon line between 5IL and 8IL, with reference to sample RI-226+00-S100.</li> <li>Floor established by sample I106 VF-8A 6-12" = 0.89 mg/kg.</li> <li>Downstream boundary established by the polygon line between 5IL and 9IL, with reference to sample I106 VF-8A 6-12" = 0.89 mg/kg.</li> </ul>
1106	• Upland boundary established by the polygon line between 12ILb and 8IL, with reference to sample RI-226+00-S100 0-6" = 1.4 mg/kg; sample I106 VW-4E 0-6" = 1.98 mg/kg; sample I106 VW-3E 0-6" 3.35 mg/kg; the polygon line between 16IL, 19IL and 20IL, with reference to sample RI-229+10-S75 0-6" = 1.5 mg/kg;  • Internal boundaries with I107 and I107a established by the polygon line between 12ILb and 9IL, with reference to sample RI-224+00-W40 6-12" = 0.26 mg/kg.  • Internal boundary with I108 established by the polygon line between 10IL and 11IL, with reference to sample RI-225+90-S20 6-12" = 0.56 mg/kg.  • Internal boundary with I109 established by the polygon line between 14IL, 15IL, 16IL and 17IL, with reference to sampes RI-227+50-S10 6-12" = 1.5 mg/kg; and RI-227+50-S40 6-12" = 0.83 mg/kg.  • Downstream boundary established by sample RI-229+10-S40 6-12" = 4.1 mg/kg.  • Floor established by samples RI-224+00-W40 6-12" = 0.26 mg/kg; RI-225+90-S50 6-12" = 0.49 mg/kg; RI-225+90-S20 6-12" = 0.56 mg/kg; RI-227+50-S10 6-12" = 1.5 mg/kg; and RI-227+50-S40 6-12" = 0.83 mg/kg.
I106a	<ul> <li>Upstream boundary established by the polygon line between 5IL and 9IL, with reference to sample I106 VF-8A 6-12" = 0.89 mg/kg.</li> <li>Upland boundary established by the polygon line between 9IL and 8IL, with reference to sample RI-226+00-S100.</li> <li>Floor established by sample I106 VW-1A 12-18" = 0.37 mg/kg.</li> <li>Downstream TSCA boundary established by sample I106 VB-1D 6-12" = 17.5 mg/kg.</li> </ul>
I106b	<ul> <li>Upstream TSCA boundary established by sample I106 VB-1D 6-12" = 17.5 mg/kg</li> <li>Downstream TSCA boundary established by sample I106 VW-1A 6-12" = 18 mg/kg.</li> <li>Upland boundary established by the polygon line between 9IL and 8IL, with reference to sample RI-226+00-S100.</li> <li>Floor established by sample I106 VW-1A 12-18" = 0.37 mg/kg.</li> </ul>

# Table 2. Rationale for Removal Boundaries Reach I

# **Hayton Area Remediation Project**

D 1	U5/25/2011
Removal Zone ID	Detionals
Zone in	Rationale
I106c	<ul> <li>Upstream boundary established by sample I106 VB-7S 6-12" = 4.6 mg/kg.</li> <li>Internal boundary with I111 established by the polygon line between 23IL and 25IL, with reference to sample I106 VW-7P 6-12" = 4.71 mg/kg; and by the polygon line boundary between 26IL and 24IL, with reference to sample RI-231+30-S80 6-12" = 0.13 mg/kg.</li> <li>Internal boundaries with I106i and I106h are established by samples I106 VB-7S 6-12" = 4.6 mg/kg and I106 VW-7P 6-12" = 4.71 mg/kg.</li> <li>Upland boundary defined by the polygon line between 25IL and 21IL, and between 19IL and 20IL, with reference to sample RI-229+10-S75 0-6" = 1.5 mg/kg.</li> <li>Floor established by sample I106 VW-7P 6-12" = 4.71 mg/kg; and I106 VW-7N 6-12" = 1.46 mg/kg.</li> </ul>
1106d	<ul> <li>Upstream boundary established by sample I106 VB-7C 12-18" 0.96 mg/kg.</li> <li>Upland boundary established by sample I106 VB-7B 12-18" = 0.96 mg/kg.</li> <li>Downstream boundary established by sample I106 VW-7M 12-18" = 2.86 mg/kg.</li> <li>Floor established by samples I106 VB-7A 18-24" = 1.6 mg/kg; and sample I106 VB-7B 18-24" = 0.2 mg/kg.</li> </ul>
1106e	<ul> <li>Upstream TSCA boundary with I109 and I106f established by sample I106 VW-7I 6-12" = 11.9 mg/kg.</li> <li>Upland TSCA boundary with I106f established by samples I106 VW-7I 6-12" = 11.9 mg/kg; I106 VW-7F 6-12" = 14.5 mg/kg; I106 VW-7G 6-12" = 21.6 mg/kg; and I106 VB-7R 6-12" = 5.48 mg/kg.</li> <li>Downstream TSCA boundary with I106g established by sample I106 VB-7S 12-18" = 0.494 mg/kg.</li> <li>Floor established by samples I106 VB-7B 12-18" = 0.96 mg/kg and I106 VB-7C 12-18" = 0.96 mg/kg.</li> </ul>
I106f	<ul> <li>Upland boundary established by the polygon line between 19IL and 20IL, with reference to sample RI-229+10-S75 0-6" = 1.5 mg/kg.</li> <li>Upstream boundary with I106 established by sample RI-229+10-S40 6-12" = 4.1 mg/kg.</li> <li>Downstream boundary established by sample I106 VB-7S 6-12" = 4.6 mg/kg.</li> <li>Floor established by samples I106 VB-7B 12-18" = 0.96 mg/kg;</li> <li>I106 VB-7R 12-18" = 0.494 mg/kg; and I106 VB-7C 12-18" = 0.96 mg/kg.</li> </ul>
I106g	<ul> <li>Upstream boundary established by sample I106 VW-7M 12-18" = 2.86 mg/kg.</li> <li>Upland TSCA boundary established by samples I106 VB-7R 6-12" = 5.48 mg/kg.</li> <li>Upland non-TSCA boundary established by I106 VB-7R 12-18" = 0.494 mg/kg.</li> <li>Downstream TSCA boundary established by samples I106 VW-7H 6-12" = 19.9 mg/kg and I106 VW-7H 12-18" = 16.8 mg/kg</li> <li>Floor established by sample I106 VW-7D 18-24" = 1.4 mg/kg.</li> </ul>

# Table 2. Rationale for Removal Boundaries Reach I

#### Hayton Area Remediation Project

Removal					
Zone ID	Rationale				
I106h	<ul> <li>Upstream TSCA boundary established by samples I106 VW-7H 6-12" = 19.9 mg/kg and I106 VW-7H 12-18" = 16.8 mg/kg.</li> <li>Downstream boundary established by I106 VW-7L 12-18" = 4.66 mg/kg.</li> <li>Upland boundary with I106c established by samples I106 VB-7S 6-12" = 4.6 mg/kg and I106 VW-7P 6-12" = 4.71 mg/kg.</li> <li>Floor established by sample I106 VW-7D 18-24" = 1.4 mg/kg.</li> </ul>				
I106i	<ul> <li>Upstream boundary and floor established by sample I106 VW-7L 12-18" = 4.66 mg/kg.</li> <li>Upland boundary with I106c established by samples I106 VB-7S 6-12" = 4.6 mg/kg and I106 VW-7P 6-12" = 4.71 mg/kg.</li> </ul>				
1107	<ul> <li>Upstream TSCA boundary established by sample I107 VB-1A 0-6" = 30 mg/kg.</li> <li>Upland boundary established by the polygon line between 9IL and 12ILb, with reference to sample RI-224+00-W40.</li> <li>Downstream boundary established by sample I107 VW-2B 12-18" = 0.41 mg/kg.</li> <li>Floor established by sample RI-224+00-W10 24-36" = 0.21 mg/kg.</li> </ul>				
1107a	<ul> <li>Upstream boundary established by sample I107 VW-2B 12-18" = 0.41 mg/kg</li> <li>Upland boundary established by the polygon line between 9IL and 12ILb, with reference to sample RI-224+00-W40.</li> <li>Floor established by samples I107 VB-2C 12-18" = 1.5 mg/kg; and I107 VW-2B 12-18" = 0.41 mg/kg.</li> <li>Downstream TSCA boundary established by sample I106 VB-6C 0-6" = 20 mg/kg.</li> </ul>				
I107b	<ul> <li>Upstream TSCA boundary established by sample I106 VW-1A 6-12" = 18 mg/kg.</li> <li>Upstream non-TSCA boundary established by sample I106 VW-1A 12-18" = 0.37 mg/kg.</li> <li>Upland boundary established by the polygon line between 9IL and 8IL, with reference to sample RI-226+00-S100; and by the polygon line between 9IL and 12ILb, with reference to sample RI-224+00-W40.</li> <li>Floor established by sample RI-224+00-W10 24-36" = 0.21 mg/kg.</li> <li>Downstream TSCA boundary established by sample I107 VB-1A 0-6" = 30 mg/kg.</li> </ul>				
<ul> <li>Upstream TSCA boundary established by sample I106 VB-6C 0-6" = 20 mg/kg.</li> <li>Upland and downstream boundaries established by the polygon line between 10IL reference to sample RI-225+90-S20 6-12" = 0.56 mg/kg.</li> <li>Floor established by sample RI-225+90-S5 12-21" = 2.5 mg/kg.</li> </ul>					
1109	<ul> <li>Upstream boundary established by the polygon line between 17IL and 14IL and 15IL, with reference to samples RI-227+50-S10 6-12" = 1.5 mg/kg; and RI-227+50-S40 6-12" = 0.83 mg/kg.</li> <li>Upland boundary established by the polygon line between 17IL and 16IL.</li> <li>Downstream TSCA boundary established by sample I106 VW-7I 6-12" = 11.9 mg/kg.</li> <li>Floor established by sample RI-229+10-S10 12-21" = 1.6 mg/kg.</li> </ul>				

# $Table\ 2.\ Rationale\ for\ Removal\ Boundaries$

#### Reach I

#### **Hayton Area Remediation Project**

Removal	
Zone ID	Rationale
I110	<ul> <li>Upstream TSCA boundary established by RI-231+30-S10 0-6" = 16 mg/kg.</li> <li>Upland TSCA boundary established by sample I110 VB-1A 0-6" = 38 mg/kg; and by the polygon line boundary between 23IL and 26IL, with reference to sample RI-231+30-S50 0-6" = 47 mg/kg.</li> <li>Downstream TSCA boundary established by the polygon line boundary between 23IL and 26IL, with reference to sample RI-231+30-S50 0-6" = 47 mg/kg.</li> <li>Floor established by samples RI-231+30-S10 12-27" = 0.34 mg/kg; and RI-231+30-S25 12-21" = 0.18 mg/kg.</li> </ul>
: I111	<ul> <li>Internal TSCA boundary with I110 established by sample I110 VB-1A 0-6" = 38 mg/kg; and by the polygon line boundary between 23IL and 26IL, with reference to sample RI-231+30-S50 0-6" = 47 mg/kg.</li> <li>Upland boundary established by the polygon line boundary between 26IL and 24IL, with reference to sample RI-231+30-S80 6-12" = 0.13 mg/kg; and between 23IL and 25IL, with reference to sample I106 VW-7P 6-12" = 4.71 mg/kg.</li> <li>Downstream boundary established by the polygon line boundary between 26IL and 1JL, with reference to sample RJ-233+00-S20 6-12" = 2 mg/kg.</li> <li>Floor established by RI-231+30-S50 12-20" = 3.2 mg/kg; and RI-231+30-S25 12-21" = 0.18 mg/kg.</li> </ul>
I201	<ul> <li>Upstream boundary with H202 established by the polygon between 14HR and 2IR, with reference to sample RH-216+80-N10 6-12" = 4.2 mg/kg.</li> <li>Floor established by sample RI-218+50-N10 12-18" = 2.6 mg/kg.</li> </ul>
1202	<ul> <li>Upland boundary with H204a, H204b and H204c established by samples H204 VB-3A 0-6" = 48 mg/kg; RI-219+50-E60 0-6" = 6.8 mg/kg; and RI-219+50-E60 6-12" = 0.54 mg/kg.</li> <li>Floor established by samples RI-218+50-N10 12-18" = 2.6 mg/kg; I202 VF-2B 12-18" = 4.2 mg/kg; and RI-219+50-E30 6-18" = 1.9 mg/kg.</li> <li>Downstream boundary established by the polygon line between 1IR and 4IR, and by sample RI-219+50-E30 6-18" = 1.9 mg/kg.</li> </ul>
I203	<ul> <li>Lateral boundaries established by the polygon line between 4IR and 1IR, with reference to sample RI-219+50-E30 6-18" = 1.9 mg/kg.</li> <li>Floor established by sample RI-219+50-E10 18-27" = &lt;0.043 mg/kg.</li> </ul>

# Table 2. Rationale for Removal Boundaries

#### Reach I

#### Hayton Area Remediation Project

Removal	05/25/2011
Zone ID	Rationale
I204	<ul> <li>Upland boundary defined by samples H201 VW-1D 0-6" = 4.7;</li> <li>H201 VW-5C 0-6" = 1.8 mg/kg; I204 VW-1G 0-6" = 3.8 mg/kg;</li> <li>I204 VW-4C 0-6" = 0.952 mg/kg; and I204 VW-8D 0-6" = 2.56.</li> <li>Upstream boundary established by the polygon line between 4IR and 1IR, and sample RI-219+50-E30 6-18" = 1.9 mg/kg.</li> <li>Boundary with I205d and I205c established by sample RI-220+80-N10 6-12" = 1.8 mg/kg.</li> <li>TSCA boundary with I205 established by samples I204 VB-3I 0-6" = 12.8 mg/kg;</li> <li>I204 VB-3G 0-6" = 23.4 mg/kg; I204 VB-3H 0-6" = 21.7 mg/kg.</li> <li>Boundary with I206b established with the polygon line between 7IR and 10IR.</li> <li>Boundary with I206a established by the polygon line between 7IR and 10IR.</li> </ul>
1205	<ul> <li>Southern boundary with I205a established by the polygon line between 8IRb and 9IR, and sample I205 VB-3B 6-12" = 2.38 mg/kg.</li> <li>Upland boundary established by samples I204 VB-3I 0-6" = 12.8 mg/kg; I204 VB-3G 0-6" = 23.4 mg/kg; I204 VB-3H 0-6" = 21.7 mg/kg.</li> <li>Floor established by sample I205 VB-3B 6-12" = 2.38 mg/kg.</li> <li>West TSCA boundary established by the polygon line between 7IR and 9IR, with reference to sample I204 VB-3J 0-6" = 29 mg/kg.</li> </ul>
I205a	<ul> <li>Upland TSCA boundary with I206b established by the polygon line between 7IR and 8IRb, and sample I204 VB-3J 0-6" = 29 mg/kg.</li> <li>Upland boundary with I205 established by the polygon line between 8IRb and 9IR, and sample I205 VB-3B 6-12" = 2.38 mg/kg.</li> <li>Eastern TSCA boundary with I205b established by sample I205 VB-1A 6-12" = 17.3 mg/kg; and I205 VW-2B 6-12" = 32.6 mg/kg.</li> <li>Southwestern TSCA boundary with I206 established by samples I205 VB-2B 0-6" = 26 mg/kg; and I205 VB-3D 0-6" = 30 mg/kg.</li> <li>Floor established by RI-222+30-N40 12-18" = 0.13 mg/kg; and I205 VW-2B 12-18" = 1.38 mg/kg.</li> </ul>
I205b	<ul> <li>TSCA boundary with I205a established by I205 VB-1A 6-12" = 17.3 mg/kg; and I205 VW-2B 6-12" = 32.6 mg/kg.</li> <li>Boundary with I205c established by I205 VB-1B 12-18" = &lt;0.15 mg/kg.</li> <li>TSCA boundary with I205c established by I205 VB-1B 0-6" = 41 mg/kg.</li> <li>Floor established by I205 VB-1B 12-18" = &lt;0.15 mg/kg; and I205 VW-2B 12-18" = 1.38 mg/kg.</li> </ul>

# Table 2. Rationale for Removal Boundaries Reach I

#### Hayton Area Remediation Project

Removal	03/23/2011				
Zone ID	Rationale				
I205c	<ul> <li>Upstream TSCA boundary with I205d established by I204 VB-6D 6-12" = 23.7 mg/kg.</li> <li>Upstream non-TSCA boundary with I205d established by I205 VB-6D 12-18" = 1.16 mg/kg.</li> <li>Downstream TSCA boundary with I206 established by I205 VW-2B 6-12" = 32.6 mg/kg.</li> <li>Downstream non-TSCA boundary with I206 established by I205 VW-2B 12-18" = 1.38 mg/kg.</li> <li>Floor established by I204 VF-6B 18-24" = 3.74 mg/kg.</li> </ul>				
1205d	<ul> <li>Upstream and upland boundary established by sample RI-220+80-N10 6-12" = 1.8 mg/kg.</li> <li>Downstream TSCA boundary with I205c established by I204 VB-6D 6-12" = 23.7 mg/kg.</li> <li>Downstream non-TSCA boundary with I205c established by I205 VB-6D 12-18" = 1.16 mg/kg.</li> <li>Floor established by samples I205 VB-6D 12-18" = 1.16 mg/kg; and RI-220+80-N10 12-27" = 0.5 mg/kg.</li> </ul>				
1206	<ul> <li>Upland TSCA boundary with I205a established by samples I205 VB-2B 0-6" = 26 mg/kg; and I205 VB-3D 0-6" = 30 mg/kg.</li> <li>Upland non-TSCA boundary with I205a established by sample I205 VW-2B 12-18" = 1.38 mg/kg.</li> <li>Upstream TSCA boundary with I205c established by I205 VW-2B 6-12" = 32.6 mg/kg.</li> <li>Upstream non-TSCA boundary with I205c established by I205 VW-2B 12-18" = 1.38 mg/kg.</li> <li>Floor established by sample RI-222+30-N10 24-30" = &lt;0.038 mg/kg.</li> <li>Downstream boundary established by I204 VW-5A 18-24" = 1.9 mg/kg.</li> </ul>				
I206a	<ul> <li>Upstream boundary established by I204 VW-5A 18-24" = 1.9 mg/kg.</li> <li>Upland boundary established by sample I204 VW-7A 12-18" = 0.88 mg/kg; and the polygon line between 7IR and 10IR.</li> <li>Floor established by sample I204 VW-5A 18-24" = 1.9 mg/kg.</li> <li>Downstream boundary is established by the polygon line between 7IR and 10IR.</li> </ul>				
1206Ь	<ul> <li>Southern and eastern TSCA boundaries are established by the polygon line between 7IR and 8IRb, and samples I204 VB-3J 0-6" = 29 mg/kg; and I204 VB-3H 0-6" = 21.7 mg/kg.</li> <li>Western boundary with I206a established by sample I204 VW-7A 12-18" = 0.88 mg/kg.</li> <li>Floor established by sample I204 VW-7A 12-18" = 0.88 mg/kg.</li> <li>Northern boundary with I206b established with the polygon line between 7IR and 10IR.</li> </ul>				

# Table 2. Rationale for Removal Boundaries

#### Reach I

#### **Hayton Area Remediation Project**

Removal	05/25/2011					
Zone ID	1					
1207	<ul> <li>Upland boundary established by I204 VW-8D 0-6" = 2.56; I207 VW-1P 0-6" = 4 mg/kg; I207 VW-1R 0-6" = 3.81 mg/kg; I207 VW-2J 0-6" = 1.56 mg/kg;</li> <li>I207 VW-3J 0-6" = 4.16 mg/kg; I207 VW-4G 0-6"; and I207 VW-5F 0-6".</li> <li>Floor established by samples I207 VW-1M 6-12" = 1.5 mg/kg;</li> <li>RI-226+00-N140 = 6-12" = 0.18 mg/kg; RI-229+10-N40 6-12" = 0.87 mg/kg;</li> <li>RI-229+10-N60 6-12" = 1 mg/kg; RI-231+30-N60 6-12" = 1.9 mg/kg.</li> </ul>					
I207a	<ul> <li>TSCA boundaries established by samples I207 VW-1A 0-6" = 31 mg/kg; I207 VW-1A 6-12" = 12.7 mg/kg; I207 VB-1L 0-6" = 41.1 mg/kg; I207 VB-1L 6-12" = 6.67 mg/kg; I207 VB-1E 6-12" = 0.378 mg/kg; I207 VB-1H 6-12" = 0.462 mg/kg.</li> <li>Non-TSCA boundaries along the northeast and east sides are established by I207 VB-1E 6-12" = 0.378 mg/kg; and I207 VB-1H 6-12" = 0.462 mg/kg; and the polygon line between 14IR and 10IR.</li> <li>Floor established by sample I207 VW-1C 12-18" = 0.0656 mg/kg.</li> </ul>					
1207Ь	<ul> <li>The non-TSCA boundaries adjacent to I207a are established by I207 VB-1E 6-12" = 0.378 mg/kg; and I207 VB-1H 6-12" = 0.462 mg/kg; and the polygon line between 14IR and 10IR.</li> <li>The non-TSCA boundary adjacent to I207c are established by sample I207 VW-3E 6-12" = 1.77 mg/kg.</li> <li>Floor established by samples I207 VB-1E 6-12" = 0.378 mg/kg; and I207 VB-1H 6-12" = 0.462 mg/kg</li> <li>Eastern TSCA boundary established by samples I107 VW-1B 0-6" = 18 mg/kg; and I207 VB-1K 0-6" = 12.6 mg/kg.</li> </ul>					
1207c	<ul> <li>Upland boundary established by sample I207 VW-1M 6-12" = 1.5 mg/kg.</li> <li>Non-TSCA boundary adjacent to I207b established by sample I207 VW-3E 6-12" = 1.77 mg/kg.</li> <li>TSCA boundaries established by samples I207 VB-1L 0-6" = 41.1 mg/kg; I207 VB-1M 0-6" = 12.7 mg/kg; I207 VB-1K 0-6" = 12.6 mg/kg; and I207 VW-3E 0-6" = 42 mg/kg.</li> <li>Floor established by sample I207 VF-1G 12-18" = 0.103 mg/kg.</li> </ul>					
1207d	<ul> <li>TSCA boundaries with I207a, I207b and I207c established by samples I207 VW-1A 0-6" = 31 mg/kg; I207 VW-1A 6-12" = 12.7 mg/kg; I207 VB-1L 0-6" = 41.1 mg/kg; and I207 VB-1L 6-12" = 6.67 mg/kg.</li> <li>Upland boundary with I207 established by samples RI-226+00-N100 6-12" = 1.3 mg/kg; RI-226+00-N120 6-12" = 0.035 mg/kg the northern polygon boundary 16IR, continuing towards the intersection with sample I207 VW-1M 6-12" = 1.5 mg/kg.</li> <li>Floor established by samples RI-225+90-N50 12-18" = 0.75 mg/kg; and RI-226+00-N100 12-24" = 1.1 mg/kg.</li> </ul>					

#### Table 2. Rationale for Removal Boundaries Reach I

## **Hayton Area Remediation Project**

Removal Zone ID	Rationale				
I208	<ul> <li>Floor established by samples RI-226+50-N10 12-24" = &lt;0.038 mg/kg;</li> <li>RI-225+90-N10 13-24" = 0.5 mg/kg; and</li> <li>TSCA boundary with I209 established by sample I209 VB-1D 6-12" = 12.8 mg/kg.</li> </ul>				
I209	<ul> <li>Upland TSCA boundary with I211b established by samples I209 VB-1G 6-12" = 12.7 mg/kg; and I209 VB-1E 6-12" = 37 mg/kg.</li> <li>Floor established by samples I209 VB-1B 12-18" = 3.48 mg/kg; and I209 VB-1C 12-18" = 3.43 mg/kg.</li> <li>Downstream TSCA boundary with I209a established by sample I209 VB-1A 0-6" = 31 mg/kg.</li> </ul>				
I209a	<ul> <li>Upland boundary established by the polygon line between 13IRa and 13IRb, with reference to samples RI-227+70-N10 0-6" = 24 mg/kg; RI-227+70-N10 6-12" = 0.31 mg/kg; RI-227+70-N10 12-24" = 0.43 mg/kg.</li> <li>Upstream TSCA boundary with I209 established by sample I209 VB-1A 0-6" = 31 mg/kg.</li> <li>Floor established by samples RI-227+30-N10 12-24" = 0.17 mg/kg; and RI-227+50-N10 12-20" = 3.2 mg/kg.</li> <li>Downstream TSCA boundary established by sample RI-227+50-N10 0-6" = 32 mg/kg.</li> </ul>				
I210	<ul> <li>Upstream TSCA boundary established by sample RI-227+50-N10 0-6" = 32 mg/kg.</li> <li>Upland and downstream boundaries established by the polygon line between 13IRa and 13IRb, with reference to samples RI-227+70-N10 0-6" = 24 mg/kg;</li> <li>RI-227+70-N10 6-12" = 0.31 mg/kg; RI-227+70-N10 12-24" = 0.43 mg/kg.</li> <li>Floor established by sample RI-227+50-N10 12-20" = 3.2 mg/kg.</li> </ul>				
I211	<ul> <li>Upland TSCA boundary established by sample I211 VB-5A 0-6" = 19.6 mg/kg.</li> <li>Western TSCA boundary established by samples RI-227+70-N10 0-6" = 48 mg/kg; and I211 VB-1F 0-6" = 45 mg/kg.</li> <li>Eastern TSCA boundary established by sample I211 VB-1D 0-6" = 45 mg/kg.</li> <li>Eastern non-TSCA boundary with I211a established by samples I211 VW-2C 6-12" = 0.457; and I211 VW-2D 6-12" = 0.275 mg/kg.</li> <li>Southern TSCA boundary with I212 established by the polygon line between 13IRa and 14R, with reference to sample RI-227+50-N40 0-6" = 28 mg/kg.</li> <li>Floor established by samples I211 VW-2C 6-12" = 0.457 mg/kg; I211 VW-2D 6-12" = 0.275 mg/kg; RI-227+50-N70 6-12" = 0.37 mg/kg; RI-227+50-N55 6-12" = 0.28 mg/kg; and RI-226+00-N140 6-12" = 0.18 mg/kg.</li> </ul>				

# Table 2. Rationale for Removal Boundaries Reach I Hayton Area Remediation Project

Removal				
Zone ID	Rationale			
I211a	<ul> <li>Eastern TSCA boundary with I211b established by samples I2121 VB-4A 0-6" = 9.58 mg/kg; and I211 VB-3A 0-6" = 16 mg/kg.</li> <li>Western non-TSCA boundary with I211 established by samples I211 VW-2C 6-12" = 0.457; and I211 VW-2D 6-12" = 0.275 mg/kg.</li> <li>Southern TSCA boundary with I211b established by the polygon line between 14IR and 13IRb, with reference to sample I209 VB-1B 0-6" = 9.03 mg/kg.</li> <li>Northern boundary established by the polygon line between 15IR and 16IR, with reference to samples I211 VB-1D 0-6" = 45 mg/kg; RI-226+00-N100 0-6" = 28 mg/kg; and RI-226+00-N100 6-12" = 1.3 mg/kg.</li> <li>Floor established by samples RI-227+50-N70 12-24" = 0.06 mg/kg; and RI-227+50-N55 12-24" = 0.067 mg/kg.</li> </ul>			
I211b	<ul> <li>Southern TSCA boundary with I209 established by samples I209 VB-1G 6-12" = 12.7 mg/kg; and I209 VB-1E 6-12" = 37 mg/kg.</li> <li>Northern boundary established by the polygon line between 15IR and 16IR, with reference to samples RI-226+00-N100 0-6" = 28 mg/kg; and RI-226+00-N100 6-12" = 1.3 mg/kg.</li> <li>Floor established by sample I209 VB-1B 12-18" = 3.48 mg/kg.</li> <li>TSCA boundary with I211a established by samples I2121 VB-4A 0-6" = 9.58 mg/kg; and I211 VB-3A 0-6" = 16 mg/kg; and also by the polygon line between 14IR and 13IRb, with reference to sample I209 VB-1B 0-6" = 9.03 mg/kg.</li> </ul>			
I212	<ul> <li>Upland boundary established by the polygon line between 13IRa and 14IR, with reference to sample RI-227+50-N55 6-12" = 0.28 mg/kg; and RI-227+50-N55 12-24" = 0.067 mg/kg.</li> <li>Southern boundary established by the polygon line between 13IRa and 13IRb, with reference to samples RI-227+70-N10 0-6" = 24 mg/kg; RI-227+70-N10 6-12" = 0.31 mg/kg; RI-227+70-N10 12-24" = 0.43 mg/kg.</li> <li>Floor established by sample I212 VF-1A 23-29" = 2.4 mg/kg.</li> <li>Downstream boundary established by samples RI-227+70-N10 6-12" = 0.31 mg/kg; RI-227+70-N10 12-24" = 0.43 mg/kg.</li> </ul>			
I213	<ul> <li>Upland boundary established by a location between RI-229+10-N10 6-12" = 8.1 mg/kg; and RI-229+10-N40 0-6" = 0.87 mg/kg.</li> <li>Floor established by sample RI-229+10-N10 12-20" = 3.3 mg/kg.</li> <li>Downstream TSCA boundary with I215b established by sample I207 VF-6A 6-12" = 38 mg/kg.</li> </ul>			

### Table 2. Rationale for Removal Boundaries Reach I

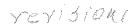
## Hayton Area Remediation Project

Removal	
Zone ID	Rationale
I214	<ul> <li>Upland boundary established by samples RI-231+30-N40 6-12" = 2.8 mg/kg; and I215 VB-4A 6-12" = 3.85 mg/kg.</li> <li>Floor established by sample RI-231+50-N10 12-24" = 0.32 mg/kg.</li> <li>TSCA boundary with I215 established by samples RI-231+50-N10 6-12" = 32 mg/kg; and I215 VB-4A 6-12" = 3.85 mg/kg.</li> </ul>
I215	<ul> <li>Northern TSCA boundary with I214 established by samples RI-231+50-N10 6-12" = 32 mg/kg; and I215 VB-4A 6-12" = 3.85 mg/kg.</li> <li>Upland boundary established by samples I215 VB-3A 6-12" = 3.59 mg/kg; and I215 VB-4A 6-12" = 3.85 mg/kg.</li> <li>Upstream boundary with I215a established by samples I215 VW-1E 12-18" = 1.98 mg/kg; and by extension of I215 VB-2C 6-12" = 0.536 mg/kg along the polygon line between 19IR and 17IR.</li> <li>Floor established by samples I215 VW-1E 12-18" = 1.98 mg/kg; I215 VB-1B 12-18" = 0.0614 mg/kg; I215 VB-1F 12-18" = 0.0904 mg/kg; RI-231+10-N10 12-24" = 0.32 mg/kg; and RI-231+30-N10 12-18" = 0.18 mg/kg.</li> </ul>
I215a	<ul> <li>Upstream boundary with I215b established by sample I215 VB-2B 12-18" = 1.63 mg/kg.</li> <li>Upland boundary established by sample I215 VB-2C 6-12" = 0.536 mg/kg.</li> <li>Downstream boundary established by sample I215 VW-1E 12-18" = 1.98 mg/kg.</li> <li>Floor established by sample I215 VF-2A 18-24" = 0.0397 mg/kg.</li> </ul>
I215b	<ul> <li>Floor and non-TSCA boundary with I215a established by sample I215 VB-2B 12-18" = 1.63 mg/kg.</li> <li>Upland and upstream boundary established by sample I215 VB-2C 6-12" = 0.536 mg/kg.</li> </ul>

Table 3. Proposed Post-Remedial Verification Samples
Reach I
Hayton Area Remediation Project

Sample	In-channel <sup>1</sup>			
ID	or Overbank	Туре	Northing	Easting
I1 PRVF-1A	In-channel	Floor	731366	2472027
I1 PRVF-2A	In-channel	Floor	731448	2471838
I2 PRVF-1A	In-channel	Floor	731703	2471796
I2 PRVF-2A	In-channel	Floor	731806	2471557
I3 PRVF-1A	In-channel	Floor	731969	2471369
I103a PRVF-1A 12-18"	Overbank	Floor	731385	2472000
I106b PRVF-1A 12-18"	Overbank	Floor	731535	2471772
I106e PRVF-1A 12-18"	Overbank	Floor	731857	2471438
I106g PRVF-1A 18-24"	Overbank	Floor	731900	2471395
I205a PRVF-1A 12-18"	Overbank	Floor	731495	2471818
I205b PRVF-1A 12-18"	Overbank	Floor	731483	2471848
I207a PRVF-1A 12-18"	Overbank	Floor	731772	2471782
I209a PRVF-1A 12-18"	Overbank	Floor	731787	2471625
I211 PRVF-3A 6-12"	Overbank	Floor	731872	2471650
I215 PRVF-4A 12-18"	Overbank	Floor	731937	2471375
I215b PRVF-1A 12-18"	Overbank	Floor	731907	2471448

<sup>&</sup>lt;sup>1</sup> The locations of in-channel samples may be adjusted, or additional in-channel samples may be added, based on visual cues observed during removal.



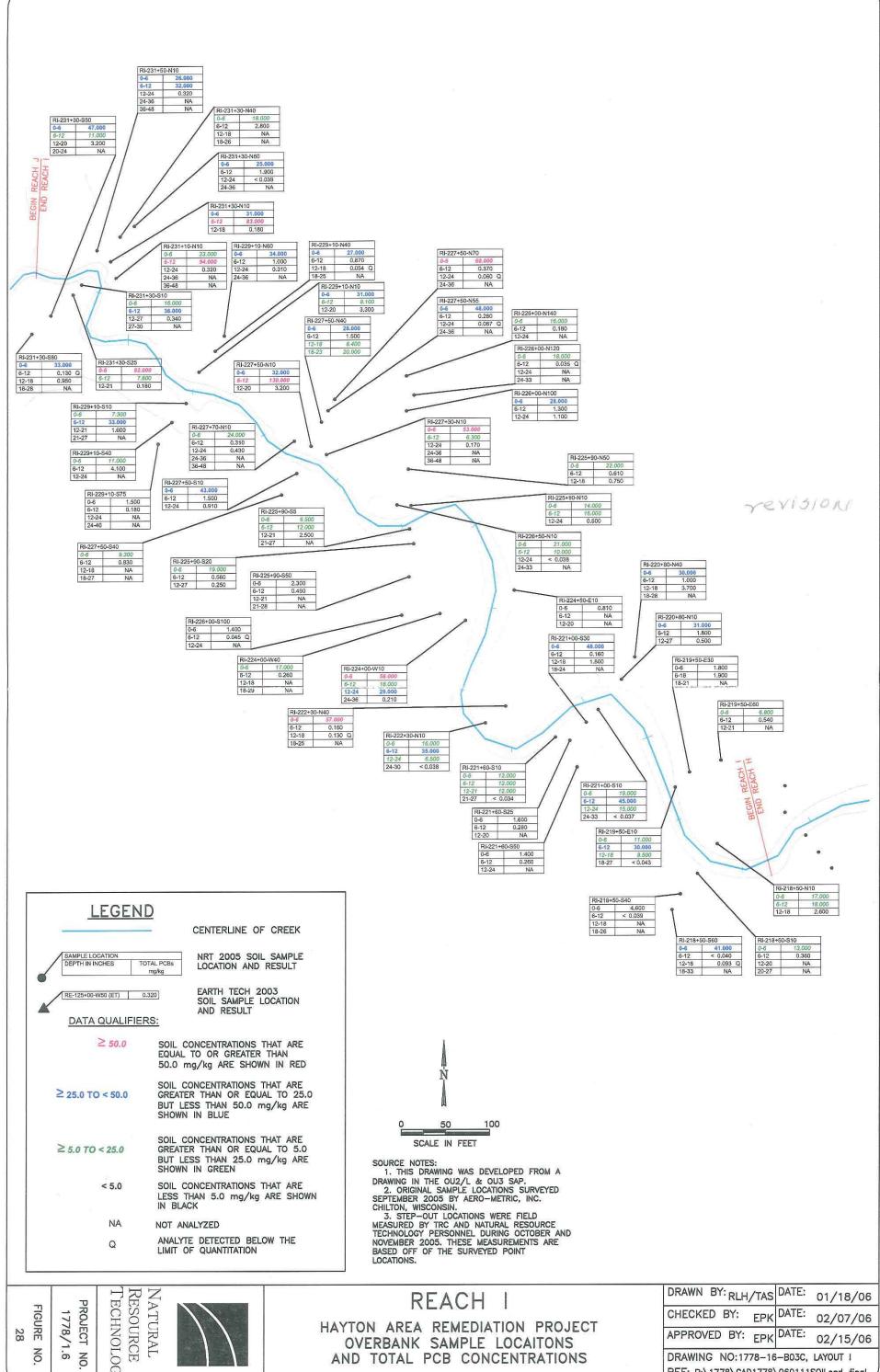


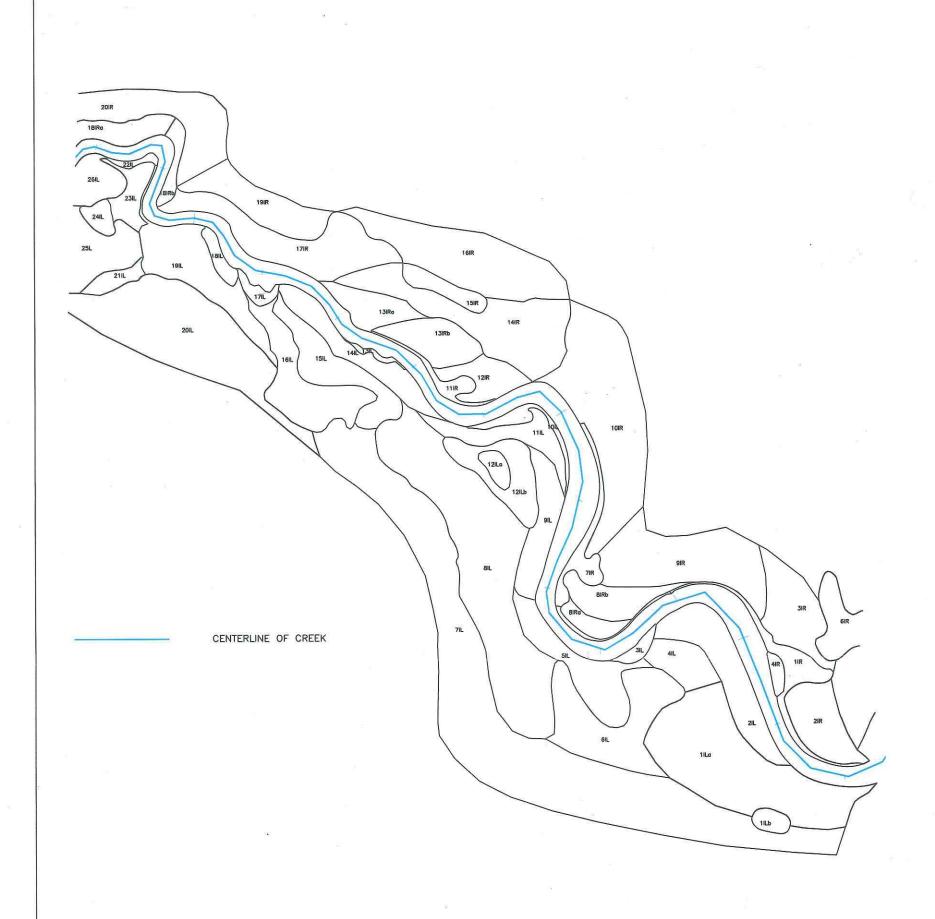
FIGURE NO. RESOURCE TECHNOLOGY



OVERBANK SAMPLE LOCAITONS AND TOTAL PCB CONCENTRATIONS

	DRAWN BY: RLH/TAS	DATE:	01/18/06
		DATE:	02/07/06
		DATE:	02/07/06
	DRAWING NO:1778-16	-B03C,	LAYOUT I
	REF: P:\1778\CAD1778\	060111	SOILcad final

Polygon Map- Reach I



N ATURAL
RESOURCE
T ECHNOLOGY
PROJECT NO.
1778/2.3
FIGURE NO.
128



OVERBANK EXCAVATION LIMITS REACH I

HAYTON AREA REMEDIATION PROJECT OUZ LOWER/OU3 SCOPE OF WORK

	DRAWN BY:	BJK	DATE:	10/04/06	
	CHECKED BY:	JAZ	DATE:	10/04/06	
	APPROVED BY:	JAZ	DATE:	10/04/06	
	DRAWING NO:1778-23-B10C-02, LAYOUT I				
	REF: FIGURE 12B REVISION 1				

